

U.S. Environmental  
Protection Agency, Region 5

PRIVATE WELL  
SAMPLING REPORT

Revision 0

Tower Standard Site  
Lac du Flambeau Indian Reservation  
Lac du Flambeau, Wisconsin

EPA Contract No. EP-W-12-009  
Task Order 2012

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## ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µg/L	micrograms per liter
bgs	below ground surface
Bristol	Bristol Environmental Remediation Services, LLC
CWE	CWE, Inc.
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
LUST	leaking underground storage tank
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tertiary-butyl ether
Pace	Pace Analytical Services, Inc.
PAH	polynuclear aromatic hydrocarbon
QA	quality assurance
QC	quality control
RPD	relative percent difference
SpeeDee	Spee-Dee Delivery Service, Inc.
SW	EPA Solid Waste Method
TBA	Targeted Brownfields Assessment
TO	Task Order
VOC	volatile organic compound

## **1.0 INTRODUCTION**

The U.S. Environmental Protection Agency (EPA) retained Bristol Environmental Remediation Services, LLC (Bristol), to prepare this summary report for the Tower Standard Site located on the Lac du Flambeau Indian Reservation in Lac du Flambeau, Wisconsin (Figure 1). This report describes a round of private-well sampling that was performed at this leaking underground storage tank (LUST) site. The EPA assigned this project to Bristol under Contract No. EP-W-12-009, Task Order (TO) 2012. This report also presents analytical data collected under a previous TO (TO 1019).

The 2015 private well sampling activities were performed in accordance with the Private Well Sampling Plan (Bristol, 2015a), Site Safety and Health Plan (Bristol, 2015b), and Quality Assurance Project Plan (Bristol, 2015c), except where noted.

### **1.1 OBJECTIVES**

The objective was to evaluate whether fuel associated with LUSTs at the Tower Standard Site has impacted private drinking water wells in the vicinity of the site.

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## **2.0 SITE BACKGROUND**

### **2.1 SITE SETTING AND HISTORY**

The Tower Standard Site is located on fee-simple land within the Lac du Flambeau Indian Reservation, at the intersection of State Highway 70 and County Road D near Lac du Flambeau, Wisconsin (Figure 2). State Highway 70 borders the site to the north, Haskell Lake to the south, and Haskell Lake Lodge motel to the southwest. The Lac du Flambeau Band of Lake Superior Chippewa Indians' Land Management Office is northwest of the intersection.

The Tower Standard gas station was built in the early 1940s and operated until 1997. The property held six underground storage tanks, five of which contained leaded or unleaded gasoline. One tank contained waste oil. All tanks were removed in 1997. After the gas station closed, the owner opened a bait and tackle shop called Bill and Linda's Lively Bait and Tackle on the site. This shop operates during the summer months.

### **2.2 PREVIOUS INVESTIGATIONS**

Investigations at the Tower Standard Site began with a preliminary site assessment in 1997. Stained soils and odors were noted and contamination was confirmed through soil sampling. A sample collected from a private well at the site in 1998 contained benzene. The Wisconsin LUST program paid to replace the well. Afterward, monitoring wells were installed, and samples drawn from the wells showed petroleum compounds in the groundwater. Contamination migrated downward in the aquifer; local groundwater flow may have been affected by the pumping of nearby drinking water wells. Subsequently, a groundwater pump and treat system was installed to remove petroleum contamination and prevent offsite migration. The Wisconsin LUST program determined that the site met conditions for closure in 2006, although soil and groundwater contamination was still present.

An unrelated investigation performed under the Targeted Brownfields Assessment (TBA) program began in 2011 in response to a request from the Tribe. A fireworks stand directly across Highway 70 from the Tower Standard Site burned down and the Tribe was concerned about perchlorate contamination leaching to groundwater and surface water. The purpose of the investigation was to identify the horizontal and vertical extent of perchlorate contamination in groundwater and assess potential routes of exposure to local residents or ecological receptors. Much of the work occurred on the south side of Highway 70, near the Tower Standard Site location because groundwater in this area flows, in part, toward Haskell Lake.

While performing vertical aquifer sampling for perchlorates during the TBA investigation, the field geologist noted strong petroleum odors at 30 feet below ground surface (bgs) in one boring and at 40 to 50 feet bgs in another boring. Samples were not analyzed for petroleum compounds at this time due to the nature of the TBA investigation.

The Tribe obtained a contractor to investigate the suspected petroleum contamination. Drilling in the same locations used during the TBA investigation, the contractor discovered a total volatile organic compound (VOC) concentration of over 47,000 parts per billion at 25 feet bgs in one groundwater sample taken near the site. A sample collected immediately adjacent to Haskell Lake found total VOCs of over 2,500 parts per billion at 40 feet in the groundwater.

### **2.3 CONTAMINANTS OF CONCERN**

Contaminants of concern include VOCs, 1,2-dibromoethane (EDB), methyl tertiary-butyl ether (MTBE), lead, cadmium, and polynuclear aromatic hydrocarbons (PAHs). Screening levels for this project for these contaminants include Wisconsin Department of Natural Resources enforcement standards and preventative action limits and EPA maximum contaminant levels and regional screening levels (Bristol, 2015a).

### **3.0 SITE ACTIVITIES**

Tap water from a total of nine private drinking water wells in the vicinity of the Tower Standard LUST Site were sampled between November 2014 and October 2015. This report is primarily concerned with sampling performed in 2015, though analytical results from 2014 are included in Tables 1 and 2 and on Figure 2. The wells to be sampled were selected by a Tribal representative (Ms. Kristen Hanson).

#### **3.1 PRIVATE WELL SAMPLING**

On September 24, 2015, Bristol subcontractor CWE, Inc. (CWE) of Weston, Wisconsin sampled five private drinking water wells in the vicinity of the Tower Standard Site. At the time of sampling, CWE could not gain access to two additional wells that were selected for sampling by the Tribal representative. The Tribal representative sampled these wells on October 3 and October 12, 2015.

During the 2015 sampling event, samples were collected from a tap near the pressure tank or other untreated location in the water line in order to collect an untreated water sample. Sampling personnel allowed the tap water to flow a minimum of five minutes to evacuate stagnant water, then used low-flow sampling and a water quality meter to record pH, temperature, conductivity, and turbidity before collecting each sample.

One well (located at 1175 Haskell Lake Landing) was a sand point well that CWE sampled with a low-flow groundwater sampling submersible pump. CWE evacuated one well volume from the sand point well before recording parameters and collecting a sample.

Field forms are provided in Appendix A.

Analytical samples were shipped under chain of custody to Pace Analytical in Minneapolis, Minnesota, for analysis. All well water samples were analyzed VOCs (including EDB and MTBE) by EPA Solid Waste (SW) Test Method 8260, total lead and cadmium by SW6020A, and PAHs by SW8270D SIM.

This was a deviation from the work plan (Bristol, 2015a), which called for analysis of VOCs by EPA drinking water method 524.2 and EDB by SW8011. This deviation was a laboratory error and resulted in higher reporting limits for many VOCs, in some cases reporting limits that exceeded action levels.

Quality assurance (QA) and quality control (QC) samples were collected (including sample duplicates, matrix spike/matrix spike duplicate [MS/MSD] pairs, and trip blanks). Results for QA/QC samples are discussed in Section 4.2.

### **3.2 DISPOSAL OF INVESTIGATION-DERIVED WASTES**

Investigation-derived waste was minimal and consisted primarily of the sampler's gloves and sample tubing. These items were disposed of in a municipal trash receptacle.

## **4.0 RESULTS**

### **4.1 ANALYTICAL DATA**

Select analytical results (typical contaminants of concern for a LUST site) for the 2014 and 2015 sampling rounds are presented in Table 1. All analytical results from both sampling rounds are presented in Table 2. Full laboratory reports for the 2015 sampling event are included in Appendix B.

Lead and xylenes were the only analytes detected in samples collected in 2014 and 2015. Only lead was detected in concentrations that exceeded the action levels. Laboratory reporting limits were higher than the most stringent screening levels for the many analytes, including the following from the select list of analytes presented on Table 1: benzene, EDB, 1,2-dichloroethane, naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene. Naphthalene was also included in the PAH analysis with a reporting limit below action levels.

Lead was detected in concentrations exceeding screening levels at the Tribal Office for the sample collected in 2014 (118 micrograms per liter [ $\mu\text{g}/\text{L}$ ]), but was detected below screening levels in 2015 at 0.18  $\mu\text{g}/\text{L}$ . During sampling in 2014, lead was present in concentrations exceeding the most stringent screening level at 1285 Haskell lake Landing (5.1  $\mu\text{g}/\text{L}$ ), but was below screening levels in 2015 at 0.57  $\mu\text{g}/\text{L}$ .

### **4.2 QUALITY ASSURANCE/QUALITY CONTROL**

The QA/QC samples collected during the 2015 sampling consisted of field duplicate samples, MS/MSD pairs, and trip blanks. Laboratory-prepared method blanks, laboratory control samples, and laboratory control sample duplicates were also part of the QA/QC program. The EPA-approved laboratory used for this project was Pace Analytical Services, Inc. (Pace), located in Minneapolis, Minnesota.

Field duplicates were to be collected at a rate of 10 percent for the entire field effort, while MS/MSD samples were to be collected at a rate of 5 percent, including at least one MS/MSD sample per matrix and analyses. The actual sampling and submittal frequency was 14 percent for field duplicate samples and 14 percent for MS/MSD pairs.

Bristol reviewed the analytical laboratory report and verified the data in accordance with the Quality Assurance Project Plan (Bristol, 2015c). With some exceptions noted below, the data met project data quality objectives. The results are reported in laboratory data packages 10323991, 10324016, 10325028, and 10326135 (Appendix B).

#### **4.2.1 Analytical Data Quality**

In general, the data verification found all data is usable as delivered by the analytical laboratory.

Six groundwater samples, a field QC duplicate, an MS/MSD pair, and a trip blank were collected on September 24, 2015, and submitted to Pace for analysis. The samples are identified as 1175 Haskell Lake Landing, 1161 Haskell Lake Road, 1167 Haskell Lake Road, DUP-1 (a field QC duplicate of 1167 Haskell Lake Road), Haskell Lake Lodge, and Tribal Office. The samples were split between two coolers, and subsequently were split between two chains of custody and two laboratory data packages: 10323991 and 10324016.

One groundwater sample was collected on October 3, 2015, and submitted to Pace for analysis. No QA/QC samples were submitted with this sample, which was identified as 14299 State Highway 70. The analytical results were reported in laboratory data package 10325028.

One groundwater sample was collected on October 12, 2015, and submitted to Pace for analysis. No QA/QC samples were submitted with this sample, which was identified as

1285 Haskell Lake Landing. The analytical results were reported in laboratory data package 10326135.

#### **4.2.1.1 Laboratory Data Package 10323991**

Data package 10323991 included samples for PAH analysis by SW8270D-SIM. Samples were received at 12.5 degrees Celsius (°C). Samples were shipped by CWE via Spee-Dee Delivery Service, Inc. (SpeeDee) on Friday September 25, but were not received by Pace until Monday September 28. As PAH results were all below detection limits, they were flagged with a UJL to indicate that they are approximate non-detects with a potential low bias.

With the exception of temperature, samples were received in good condition.

All samples were analyzed within hold times. All surrogate recoveries for project samples and QA/QC samples were within control limits. All MS/MSD recoveries and relative percent differences (RPDs) were within control limits. No analytes were detected in the method blank. Precision was deemed acceptable based on LCS recoveries being within control limits.

The RPD between field duplicate samples could not be calculated since the results for all analytes were non-detect.

#### **4.2.1.2 Laboratory Data Package 10324016**

Data package 10324016 included samples for cadmium, lead, VOCs, EDB, and MTBE analysis. Samples for VOCs and MTBE were to be analyzed by EPA drinking water method 524.2, and samples for EDB were to be analyzed by SW8011. However, due to a laboratory oversight, all VOCs (including MTBE and EDB) were analyzed by SW8260.

Samples were received at 10.2 °C. Samples were shipped by CWE via SpeeDee on Friday September 25, but were not received by Pace until Monday September 28. As VOC results

were all below detection limits, they were flagged with a UJL to indicate that they are approximate non-detects with a potential low bias. Metals results were not flagged, as these analytes are non-volatile and professional judgement deems that they would not be adversely impacted by the temperature.

The sample receipt form also notes the presence of headspace in the VOC vials. As VOC results have already been flagged with a UJL due to receipt temperature, no additional flagging is required.

With the exception of temperature and headspace, samples were received in good condition.

All samples were analyzed within hold times. All surrogate recoveries for project samples and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks or trip blank. Precision was deemed acceptable based on LCS recoveries being within control limits.

The RPD between field duplicate samples for VOCs and cadmium could not be calculated since the results were non-detect. The RPD for lead was calculated to be 89%, which exceeds the precision objective of 20%. All detected lead results for this data package have been flagged with a J indicating that they are estimated with an unknown bias.

#### **4.2.1.3 Laboratory Data Package 10325028**

Data package 10325028 included one sample for cadmium, lead, VOC, MTBE, EDB, and PAH analysis. Sample was received in good condition and within temperature limits at 5.1 °C. No headspace was observed in vials for VOC analysis.

Sample was analyzed within hold times. All surrogate recoveries for the project sample and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks. Precision was deemed acceptable based on LCS recoveries being within control limits.

No trip blank was included with the sample delivery. As no VOCs were detected in the project sample, results are not impacted.

#### **4.2.1.4 Laboratory Data Package 10326135**

Data package 10326135 included one sample for cadmium, lead, VOC, MTBE, EDB, and PAH analysis. Sample was received in good condition and within temperature limits at 3.5 °C. No headspace was observed in vials for VOC analysis.

Sample was analyzed within hold times. All surrogate recoveries for the project sample and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks. Precision was deemed acceptable based on LCS recoveries being within control limits.

No trip blank was included with the sample delivery. As no VOCs were detected in the project sample, results are not impacted.

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## 5.0 CONCLUSIONS AND RECOMMENDATIONS

In two rounds of private well sampling, the only analytes that have been detected are lead and m,p-xylenes. Lead has been detected in all wells sampled and is likely to be naturally occurring. In two samples collected in 2014, at the Tribal Office and at the residence at 1285 Haskell Lake Landing, lead concentrations exceeded screening levels (Table 1). These concentrations were not reproduced in samples collected in 2015 or, in the case of the samples collected at 1285 Haskell Lake Landing, in the duplicate sample. The significant variation in lead concentrations indicates that the concentrations are likely controlled by suspended particles that may or may not end up in sample containers. Bristol recommends that particulate filters be installed at these two locations, if they are not present already.

Xylenes were detected in the primary, but not duplicate, sample collected at 1285 Haskell Lake Landing in 2014. Again in 2015, xylenes were not detected though this may be because concentrations are very close to the reporting limit. The detected concentration ( $1.4 \mu\text{g/L}$ ) was well below the strictest screening level (EPA regional screening level of  $190 \mu\text{g/L}$ ). However, it is possible that the presence of xylenes is related to the release at the Tower Standard Site, which is located approximately 600 feet north of the residence.

Bristol recommends that, at a minimum, annual monitoring continue at the residence at 1285 Haskell Lake Landing. In addition, the Tribe and EPA may elect to continue sampling at the Haskell Lake Lodge and the residence at 14299 State Highway 70 West, which are the two sampling locations located nearest or downgradient of the Tower Standard Site.

Any future sampling performed must use the correct analytical methods to ensure that reporting limits are lower than, or as close as possible to, screening levels. Closer coordination with the laboratory and more explicit directions on the chains of custody should be used to ensure correct methods are used.

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## 6.0 REFERENCES

- Bristol Environmental Remediation Services, LLC (Bristol). (2015a). Private Well Sampling Plan. Revision 1. Tower Standard LUST Site. Task Order 2012. Lac du Flambeau, Wisconsin: EPA.
- Bristol. (2015b). Site Safety and Health Plan. Revision 0. Tower Standard LUST Site. Task Order 2012. Lac du Flambeau, Wisconsin: EPA.
- Bristol. (2015c). Final Quality Assurance Project Plan. Revision 1. LUST Sites in Indian Country, EPA Region 5: EPA.

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## **TABLES**

**Table 1 Select Analytical Results**

Address:			1428-1432 Highway D	14284 State Highway 70 West			14277 State Highway 70 West		
Description:			Residence	Tribal Office			Haskell Lake Lodge		
Sample ID:			Tower-01-1114	Tower-02-1114	TRIBAL OFFICE	Tower-03-1114	Tower-04-1114	HASKELL LAKE LODGE	
Sample Date:			11/13/2014	11/13/2014	9/24/2015	11/13/2014	11/13/2014	9/24/2015	
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL			
<b>Metals</b>									
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	--	--
Lead	µg/L	15	1.5	15	15	0.26	<b>118</b>	0.18 J	0.14
<b>Volatile Organic Compounds</b>									
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.0098)</b>	<b>ND (0.0096)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.0097)</b>
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (1.0)</b>
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (2.0) UJL	ND (1.0)
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	ND (1.5)	ND (1.5)	--
<b>Polynuclear Aromatic Hydrocarbons</b>									
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.041) UJL	--
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.041) UJL	--
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	<b>ND (0.041) UJL</b>	--
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	<b>ND (0.041) UJL</b>	--
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	<b>ND (0.041) UJL</b>	--
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.041) UJL	--
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.041) UJL	--
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	<b>ND (0.041) UJL</b>	--
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.041) UJL	--
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.041) UJL	--
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	<b>ND (0.041) UJL</b>	--
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.041) UJL	--
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.041) UJL	--

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a potential low bias

WDNR = Wisconsin Department of Natural Resources

**Table 1 Select Analytical Results (continued)**

		Address:		1167 Haskell Lake Landing			14436 Haskell Heights Drive	
		Description:		Residence		Residence		
		Sample ID:		Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114	
		Sample Date:		11/13/2014	9/24/2015	9/24/2015	11/13/2014	
Analyte	Units	Screening Levels						
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL			
<b>Metals</b>								
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	ND (0.080)
Lead	µg/L	15	1.5	15	15	0.069 J	0.15 J	0.39 J
<b>Volatile Organic Compounds</b>								
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.0098)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (2.0) UJL	ND (2.0) UJL
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	--	--
<b>Polynuclear Aromatic Hydrocarbons</b>								
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.044) UJL	ND (0.045) UJL
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.044) UJL	ND (0.045) UJL
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.044) UJL	ND (0.045) UJL
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.044) UJL	ND (0.045) UJL
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>
Fluoranthene	µg/L	NE	NE	NE	800	--	ND (0.044) UJL	ND (0.045) UJL
Fluorene	µg/L	400	80	NE	290	--	ND (0.044) UJL	ND (0.045) UJL
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.044) UJL	ND (0.045) UJL
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL
Pyrene	µg/L	250	50	NE	120	--	ND (0.044) UJL	ND (0.045) UJL

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

WDNR = Wisconsin Department of Natural Resources

**Table 1 Select Analytical Results (continued)**

Address:			1285 Haskell Lake Landing				1161 Haskell Lake Landing	
Description:			Residence				Residence	
Sample ID:			Tower-07-1114	Tower-08-1114	1285 HASSELL LAKE LANDING		Tower-09-1114	1161 HASSELL LAKE RD
Sample Date:			11/25/2014	11/25/2014	10/12/2015		11/26/2014	9/24/2015
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL		
<b>Metals</b>								
Cadmium	µg/L	5	0.5	5	9.2	--	--	ND (3.0)
Lead	µg/L	15	1.5	15	15	<b>5.1</b>	0.57 B	ND (10.0)
								0.12 B
								0.78 J
<b>Volatile Organic Compounds</b>								
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.0098)</b>	<b>ND (0.0098)</b>	<b>ND (1.0)</b>
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (0.5)	ND (1.0)
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0)
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (4.0)</b>
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0)
m,p-Xylene	µg/L	2,000	400	10,000	190	1.4 J	ND (2.0)	ND (2.0)
o-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (1.0)
Xylene (Total)	µg/L	2,000	400	10,000	190	1.4 J	ND (3.0)	ND (3.0)
<b>Polynuclear Aromatic Hydrocarbons</b>								
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.045)
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.045)
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	<b>ND (0.045)</b>
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	<b>ND (0.045)</b>
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	<b>ND (0.045)</b>
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.045)
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.045)
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	<b>ND (0.045)</b>
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.045)
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.045)
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	<b>ND (0.045)</b>
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.045)
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.045)

Notes:  
**Bolded non detects have reporting limits that exceed screening levels**  
Yellow highlight indicates detection  
**Red highlight indicates detection that exceeds screening levels**  
-- = Not analyzed  
µg/L = micrograms per liter  
B = analyte detected in blank, result may be biased high  
EPA = U.S. Environmental Protection Agency  
ES = enforcement standard

ID = identification  
J = result is an estimated quantity with an unknown bias  
MCL = maximum contaminant level  
ND = not detected above action limit (in parentheses)  
NE = not established  
PAL = preventative action limit  
RSL = regional screening level  
WDNR = Wisconsin Department of Natural Resources

**Table 1 Select Analytical Results (continued)**

Analyte	Units	Screening Levels					
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL		
<b>Metals</b>							
Cadmium	µg/L	5	0.5	5	9.2	ND (0.080)	ND (0.080)
Lead	µg/L	15	1.5	15	15	1.3 J	0.49
<b>Volatile Organic Compounds</b>							
Benzene	µg/L	5	0.5	5	0.45	<b>ND (1.0) UJL</b>	<b>ND (1.0)</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (1.0) UJL</b>	<b>ND (1.0)</b>
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (1.0) UJL</b>	<b>ND (1.0)</b>
Ethylbenzene	µg/L	700	140	700	1.5	ND (1.0) UJL	ND (1.0)
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (1.0) UJL	ND (1.0)
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (5.0) UJL</b>	<b>ND (4.0)</b>
Toluene	µg/L	800	160	1,000	1,100	ND (1.0) UJL	ND (1.0)
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (2.0) UJL	ND (2.0)
o-Xylene	µg/L	2,000	400	10,000	190	ND (1.0) UJL	ND (1.0)
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (3.0) UJL	ND (3.0)
<b>Polynuclear Aromatic Hydrocarbons</b>							
Acenaphthene	µg/L	NE	NE	NE	530	ND (0.040) UJL	ND (0.043)
Acenaphthylene	µg/L	NE	NE	NE	NE	ND (0.040) UJL	ND (0.043)
Anthracene	µg/L	3,000	600	NE	1800	ND (0.040) UJL	ND (0.043)
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	<b>ND (0.040) UJL</b>	<b>ND (0.043)</b>
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	<b>ND (0.040) UJL</b>	<b>ND (0.043)</b>
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	<b>ND (0.040) UJL</b>	<b>ND (0.043)</b>
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	ND (0.040) UJL	ND (0.043)
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	ND (0.040) UJL	ND (0.043)
Chrysene	µg/L	0.2	0.02	NE	3.4	ND (0.040) UJL	ND (0.043)
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	<b>ND (0.040) UJL</b>	<b>ND (0.043)</b>
Fluoranthene	µg/L	NE	NE	NE	800	ND (0.040) UJL	ND (0.043)
Fluorene	µg/L	400	80	NE	290	ND (0.040) UJL	ND (0.043)
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	<b>ND (0.040) UJL</b>	<b>ND (0.043)</b>
Naphthalene	µg/L	100	10	NE	0.17	ND (0.040) UJL	ND (0.043)
Phenanthrene	µg/L	NE	NE	NE	NE	ND (0.040) UJL	ND (0.043)
Pyrene	µg/L	250	50	NE	120	ND (0.040) UJL	ND (0.043)

Notes:

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µg/L = micrograms per liter

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RSL = regional screening level

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**Table 2 Complete Analytical Results**

Analyte	Units	Screening Levels									
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL						
<b>Metals</b>											
Cadmium	µg/L	5	0.5	5	9.2	--	--	ND (0.080)	--	--	ND (0.080)
Lead	µg/L	15	1.5	15	15	0.26	<b>118</b>	0.18 J	0.14	0.16	0.37 J
<b>Volatile Organic Compounds</b>											
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20)	ND (20) UJL	ND (20)	ND (20)	ND (20.0) UJL
Acrylonitrile	µg/L	NE	NE	NE	0.052	<b>ND (10)</b>	<b>ND (10)</b>	--	<b>ND (10)</b>	<b>ND (10)</b>	--
Allyl chloride	µg/L	NE	NE	NE	0.73	--	--	<b>ND (5.0) UJL</b>	--	--	<b>ND (5.0) UJL</b>
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Bromoform	µg/L	NE	NE	NE	83	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0) UJL
Bromochloromethane	µg/L	NE	NE	NE	ND (0.5)	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Bromodichloromethane	µg/L	0.6	0.06	NE	0.13	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Bromofluoromethane	µg/L	4.4	0.44	NE	3.3	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>
Bromomethane	µg/L	10	1	NE	7.5	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (5.0)	ND (20.0) UJL	ND (5.0)	ND (5.0)	ND (20.0) UJL
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0) UJL
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (5.0) UJL
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	ND (1.0)	--	ND (1.0)	ND (1.0)	--
Carbon tetrachloride	µg/L	5	0.5	5	0.45	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0) UJL</b>
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0) UJL
Chloroform	µg/L	6	0.6	NE	0.22	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (5.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (5.0) UJL</b>
Chloromethane	µg/L	30	3	NE	190	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>
Dibromochloromethane	µg/L	60	6	NE	0.17	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.0098)</b>	<b>ND (0.0096)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.0097)</b>	<b>ND (0.0098)</b>	<b>ND (1.0) UJL</b>
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	<b>ND (10)</b>	<b>ND (10)</b>	--	<b>ND (10)</b>	<b>ND (10)</b>	--
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0) UJL
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
1,1-Dichloroethene	µg/L	NE	NE	7	280	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (5.0)	ND (5.0)	ND (5.0) UJL	ND (5.0)	ND (5.0)	ND (5.0) UJL
Methylene Chloride	µg/L	5	0.5	NE	11.4	ND (4.0)	ND (4.0)	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (1.0) UJL
2-Methylnapthalene	µg/L	NE	NE	NE	36	--	--	--	--	--	--
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

**Table 2 Complete Analytical Results (continued)**

Address:		1428-1432 Highway D			14284 State Highway 70 West			14277 State Highway 70 West		
Description:		Residence			Tribal Office			Haskell Lake Lodge		
Sample ID:		Tower-01-1114		Tower-02-1114		TRIBAL OFFICE		Tower-03-1114	Tower-04-1114	HASKELL LAKE LODGE
Sample Date:		11/13/2014		11/13/2014		9/24/2015		11/13/2014	11/13/2014	9/24/2015
Analyte	Units	Screening Levels								
Volatile Organic Compounds (Continued)	Units	WDNR ES	WDNR PAL	EPA MCL	EPA RSL					
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>
2-Nitropropane	µg/L	NE	NE	NE	0.0021	<b>ND (10)</b>	<b>ND (10)</b>	--	<b>ND (10)</b>	<b>ND (10)</b>
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)
Styrene	µg/L	100	10	100	1,200	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	ND (0.5)	<b>ND (1.0) UJL</b>	ND (0.5)	ND (0.5)
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	ND (0.5)	<b>ND (1.0) UJL</b>	ND (0.5)	ND (0.5)
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	--	ND (5.0) UJL	--	--
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (5.0) UJL
1,2,4-Trichlorobenzene	µg/L	70	14	70	1.1	ND (0.5)	ND (0.5)	<b>ND (5.0) UJL</b>	ND (0.5)	<b>ND (5.0) UJL</b>
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Trichloroethene	µg/L	5	0.5	5	0.493	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0) UJL
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	--	--	--	ND (5.0) UJL	--	--
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	<b>ND (0.2)</b>	<b>ND (0.2)</b>	<b>ND (1.0) UJL</b>	<b>ND (0.2)</b>	<b>ND (1.0) UJL</b>
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (2.0) UJL	ND (1.0)	ND (2.0) UJL
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	ND (1.5)	--	ND (1.5)	ND (1.5)
<b>Polymer Aromatic Hydrocarbons</b>										
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.041) UJL	--	--
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.041) UJL	--	--
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	<b>ND (0.041) UJL</b>	--	--
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	<b>ND (0.041) UJL</b>	--	--
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	<b>ND (0.041) UJL</b>	--	--
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.041) UJL	--	--
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.041) UJL	--	--
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	<b>ND (0.041) UJL</b>	--	--
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.041) UJL	--	--
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.041) UJL	--	--
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	<b>ND (0.041) UJL</b>	--	--
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.041) UJL	--	--
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.041) UJL	--	--

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

**Table 2 Complete Analytical Results (continued)**

Analyte	Units	Address:				1167 Haskell Lake Landing		14436 Haskell Heights Drive		1285 Haskell Lake Landing						
		Description:				Residence		Residence		Residence						
		Sample ID:	Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114	Tower-07-1114	Tower-08-1114	1285 HASKELL LAKE LANDING	Sample Date:	11/13/2014	9/24/2015	9/24/2015	11/13/2014	11/25/2014	11/25/2014
Screening Levels																
Metals	WDNR ES	WDNR PAL	EPA MCL	EPA RSL												
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	ND (0.080)	--	--	--	--	--	ND (3.0)		
Lead	µg/L	15	1.5	15	15	0.069 J	0.15 J	0.39 J	0.78	5.1	0.57 B	ND (10.0)				
<b>Volatile Organic Compounds</b>																
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20.0) UJL	ND (20.0) UJL	ND (20)	ND (20)	ND (20)	ND (20)	ND (20.0)			
Acrylonitrile	µg/L	NE	NE	NE	0.052	<b>ND (10)</b>	--	--	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	--			
Allyl chloride	µg/L	NE	NE	NE	0.73	--	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	--	--	--	--	<b>ND (4.0)</b>			
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
Bromoform	µg/L	0.6	0.06	NE	0.13	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
Bromochloromethane	µg/L	NE	NE	NE	83	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)			
Bromodichloromethane	µg/L	0.6	0.06	NE	0.13	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
Bromofom	µg/L	4.4	0.44	NE	3.3	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>			
Bromomethane	µg/L	10	1	NE	7.5	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>			
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (20.0) UJL	ND (20.0) UJL	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)			
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)			
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)			
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	--	--	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	--			
Carbon tetrachloride	µg/L	5	0.5	5	0.45	<b>ND (1.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>			
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (4.0)			
Chloroform	µg/L	6	0.6	NE	0.22	<b>ND (0.5)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
Chloromethane	µg/L	30	3	NE	190	<b>ND (4.0)</b>	ND (1.0) UJL	ND (1.0) UJL	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>			
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>			
Dibromochloromethane	µg/L	60	6	NE	0.17	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.098)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.098)</b>	<b>ND (0.098)</b>	<b>ND (0.098)</b>	<b>ND (0.098)</b>	<b>ND (1.0)</b>			
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (4.0)			
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	<b>ND (10)</b>	--	--	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	--			
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)			
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>			
1,1-Dichloroethene	µg/L	NE	NE	7	280	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (5.0)	ND (5.0) UJL	ND (5.0) UJL	ND (5.0)	ND (20)	ND (20)	ND (20)	ND (5.0)			
Methylene Chloride	µg/L	5	0.5	NE	36	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)			
2-Methylnaphthalene	µg/L	NE	NE	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)			

Notes:  
**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES

**Table 2 Complete Analytical Results (continued)**

Address:		1167 Haskell Lake Landing Residence				14436 Haskell Heights Drive Residence				1285 Haskell Lake Landing Residence			
Description:		Sample ID:		Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114	Tower-07-1114	Tower-08-1114	1285 HASKELL LAKE LANDING			
Analyte		Sample Date:		11/13/2014	9/24/2015	9/24/2015	11/13/2014	11/25/2014	11/25/2014	10/12/2015			
<b>Volatile Organic Compounds (Continued)</b>													
Analyte	Units	WDNR ES	WDNR PAL	EPA MCL	EPA RSL	Screening Levels							
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (4.0)</b>
2-Nitropropane	µg/L	NE	NE	NE	0.0021	<b>ND (10)</b>	--	--	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	<b>ND (10)</b>	--
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	µg/L	100	10	100	1,200	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<b>ND (1.0)</b>
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<b>ND (1.0)</b>
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	ND (5.0) UJL	ND (5.0) UJL	--	--	--	--	ND (10.0)
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
1,2,4-Trichlorobenzene	µg/L	70	14	70	1,1	ND (0.5)	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>
Trichloroethene	µg/L	5	0.5	5	0.493	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	<b>ND (0.5)</b>	ND (0.40)
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>	<b>ND (4.0)</b>
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	--	ND (5.0) UJL	ND (5.0) UJL	ND (5.0) UJL	--	--	--	--	ND (1.0)
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.5)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>	<b>ND (1.0)</b>
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	<b>ND (0.2)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>	<b>ND (0.2)</b>	<b>ND (0.2)</b>	<b>ND (0.2)</b>	<b>ND (0.2)</b>	<b>ND (0.40)</b>
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (2.0) UJL	ND (2.0) UJL	ND (1.0)	ND (1.0)	ND (2.0)	--	--
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)	--	--
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	--	--	ND (1.5)	ND (1.5)	1.4 J	ND (3.0)	ND (3.0)
<b>Polynuclear Aromatic Hydrocarbons</b>													
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Benz(a)anthracene	µg/L	NE	NE	NE	0.012	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>	--	--	--	--	<b>ND (0.045)</b>
Benz(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>	--	--	--	--	<b>ND (0.045)</b>
Benz(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>	--	--	--	--	<b>ND (0.045)</b>
Benz(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Benz(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>	--	--	--	--	<b>ND (0.045)</b>
Fluoranthene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Fluorene	µg/L	400	80	NE	290	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	<b>ND (0.044) UJL</b>	<b>ND (0.045) UJL</b>	--	--	--	--	<b>ND (0.045)</b>
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)
Pyrene	µg/L	250	50	NE	120	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--	--	ND (0.045)

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

**Table 2 Complete Analytical Results (continued)**

Analyte	Units	Screening Levels				1161 Haskell Lake Landing	1175 Haskell Lake Landing	14299 State Highway 70 West
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL			
<b>Metals</b>								
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	ND (0.080)
Lead	µg/L	15	1.5	15	15	0.12 B	0.78 J	1.3 J
<b>Volatile Organic Compounds</b>								
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20.0) UJL	ND (20.0) UJL
Acrylonitrile	µg/L	NE	NE	NE	0.052	<b>ND (10)</b>	--	--
Allyl chloride	µg/L	NE	NE	NE	0.73	--	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>
Benzene	µg/L	5	0.5	5	0.45	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Bromoform	µg/L	NE	NE	NE	83	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL
Bromochloromethane	µg/L	NE	NE	NE	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Bromodichloromethane	µg/L	0.6	0.06	NE	0.13	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Bromoform	µg/L	4.4	0.44	NE	3.3	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Bromomethane	µg/L	10	1	NE	7.5	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (20.0) UJL	ND (20.0) UJL
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (1.0)	ND (5.0) UJL	ND (5.0) UJL
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	--	--
Carbon tetrachloride	µg/L	5	0.5	5	0.45	<b>ND (1.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL
Chloroform	µg/L	6	0.6	NE	0.22	<b>ND (0.5)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>
Chloromethane	µg/L	30	3	NE	190	<b>ND (4.0)</b>	ND (1.0) UJL	ND (1.0) UJL
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	<b>ND (4.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>
Dibromochloromethane	µg/L	60	6	NE	0.17	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	<b>ND (0.098)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	<b>ND (10)</b>	--	--
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>
1,1-Dichloroethene	µg/L	NE	NE	7	280	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (20)	ND (5.0) UJL	ND (5.0) UJL
Methylene Chloride	µg/L	5	0.5	NE	11.4	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL
2-Methylnaphthalene	µg/L	NE	NE	NE	36	--	--	--
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

**Table 2 Complete Analytical Results (continued)**

Analyte	Units	Screening Levels				Address:	Description:	Sample ID:	Sample Date:	1161 Haskell Lake Landing Residence Tower-09-1114 11/26/2014	1175 Haskell Lake Landing Sand point well 1175 HASSELL LAKE RD 9/24/2015	14299 State Highway 70 West Residence 14299 STATE HIGHWAY 70 10/3/2015
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL							
<b>Volatile Organic Compounds (Continued)</b>												
Naphthalene	µg/L	100	10	NE	0.17	<b>ND (1.0)</b>	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>		<b>ND (4.0)</b>		
2-Nitropropane	µg/L	NE	NE	NE	0.0021	<b>ND (10)</b>	--	--		--		
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
Styrene	µg/L	100	10	100	1,200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (1.0)</b>		
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (1.0)</b>		
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (1.0)</b>		
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	ND (5.0) UJL	ND (5.0) UJL		ND (10.0)		
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL		ND (1.0)		
1,2,4-Trichlorobenzene	µg/L	70	14	70	1.1	ND (0.5)	<b>ND (5.0) UJL</b>	<b>ND (5.0) UJL</b>		ND (1.0)		
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (1.0)</b>		
Trichloroethene	µg/L	5	0.5	5	0.493	<b>ND (0.5)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		ND (0.40)		
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	<b>ND (4.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (4.0)</b>		
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	--	--	ND (5.0) UJL	ND (5.0) UJL		ND (1.0)		
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	<b>ND (1.0)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (1.0)</b>		
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	<b>ND (0.2)</b>	<b>ND (1.0) UJL</b>	<b>ND (1.0) UJL</b>		<b>ND (0.40)</b>		
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (2.0)	ND (2.0) UJL	ND (2.0) UJL		ND (2.0)		
o-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL		ND (1.0)		
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (3.0)	--	--		ND (3.0)		
<b>Polynuclear Aromatic Hydrocarbons</b>												
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Benz(a)anthracene	µg/L	NE	NE	NE	0.012	--	<b>ND (0.042) UJL</b>	<b>ND (0.040) UJL</b>		<b>ND (0.043)</b>		
Benz(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	<b>ND (0.042) UJL</b>	<b>ND (0.040) UJL</b>		<b>ND (0.043)</b>		
Benz(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	<b>ND (0.042) UJL</b>	<b>ND (0.040) UJL</b>		<b>ND (0.043)</b>		
Benz(g,h,i)perylene	µg/L	NE	NE	NE	--	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Benz(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	<b>ND (0.042) UJL</b>	<b>ND (0.040) UJL</b>		<b>ND (0.043)</b>		
Fluoranthene	µg/L	NE	NE	NE	800	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Fluorene	µg/L	400	80	NE	290	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	<b>ND (0.042) UJL</b>	<b>ND (0.040) UJL</b>		<b>ND (0.043)</b>		
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		
Pyrene	µg/L	250	50	NE	120	--	ND (0.042) UJL	ND (0.040) UJL		ND (0.043)		

Notes:

**Bolded non detects have reporting limits that exceed screening levels**

Yellow highlight indicates detection

**Red highlight indicates detection that exceeds screening levels**

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

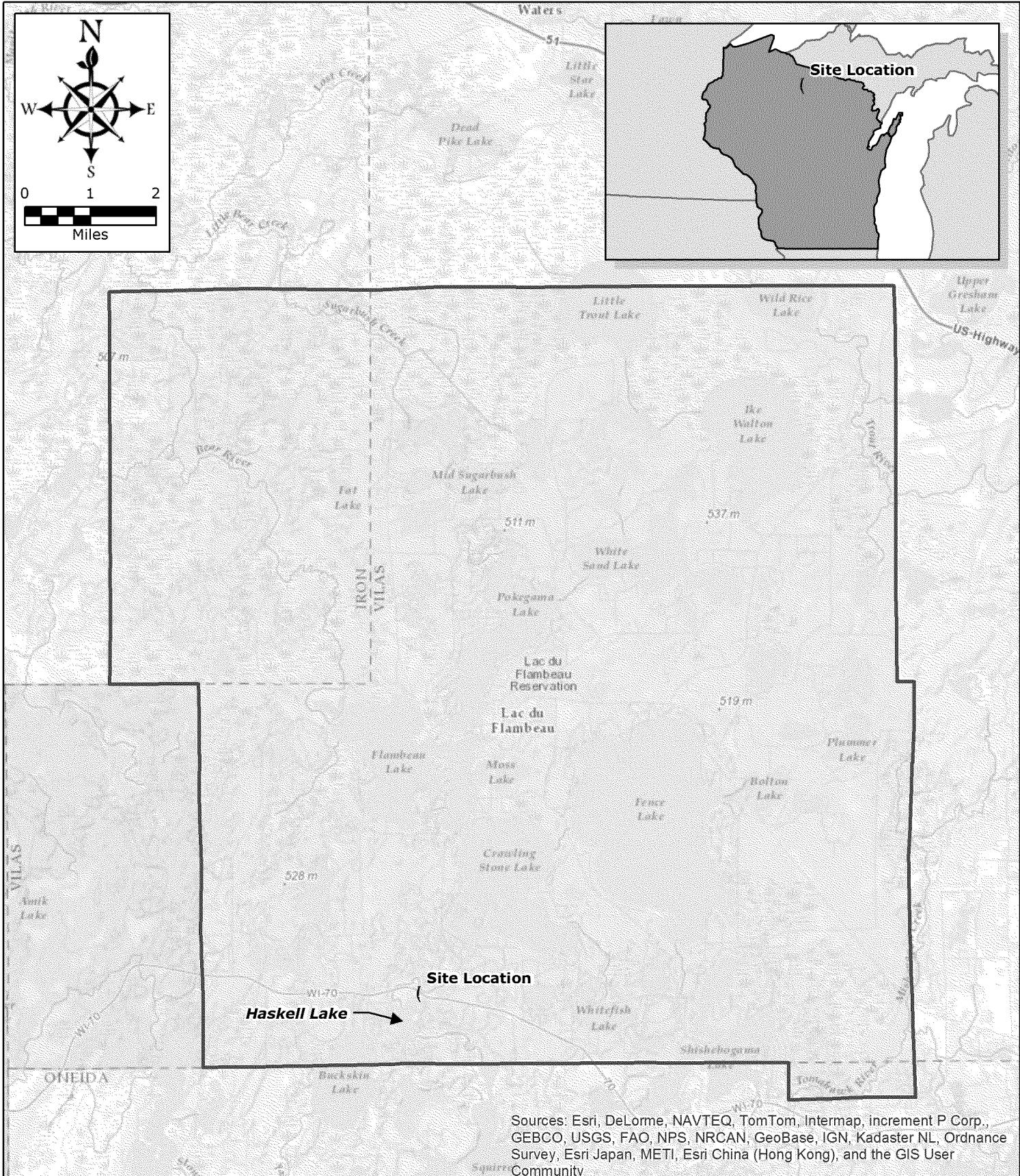
PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

## **FIGURES**



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community

#### Legend

- ( ) Site Location
- Lac du Flambeau Indian Reservation

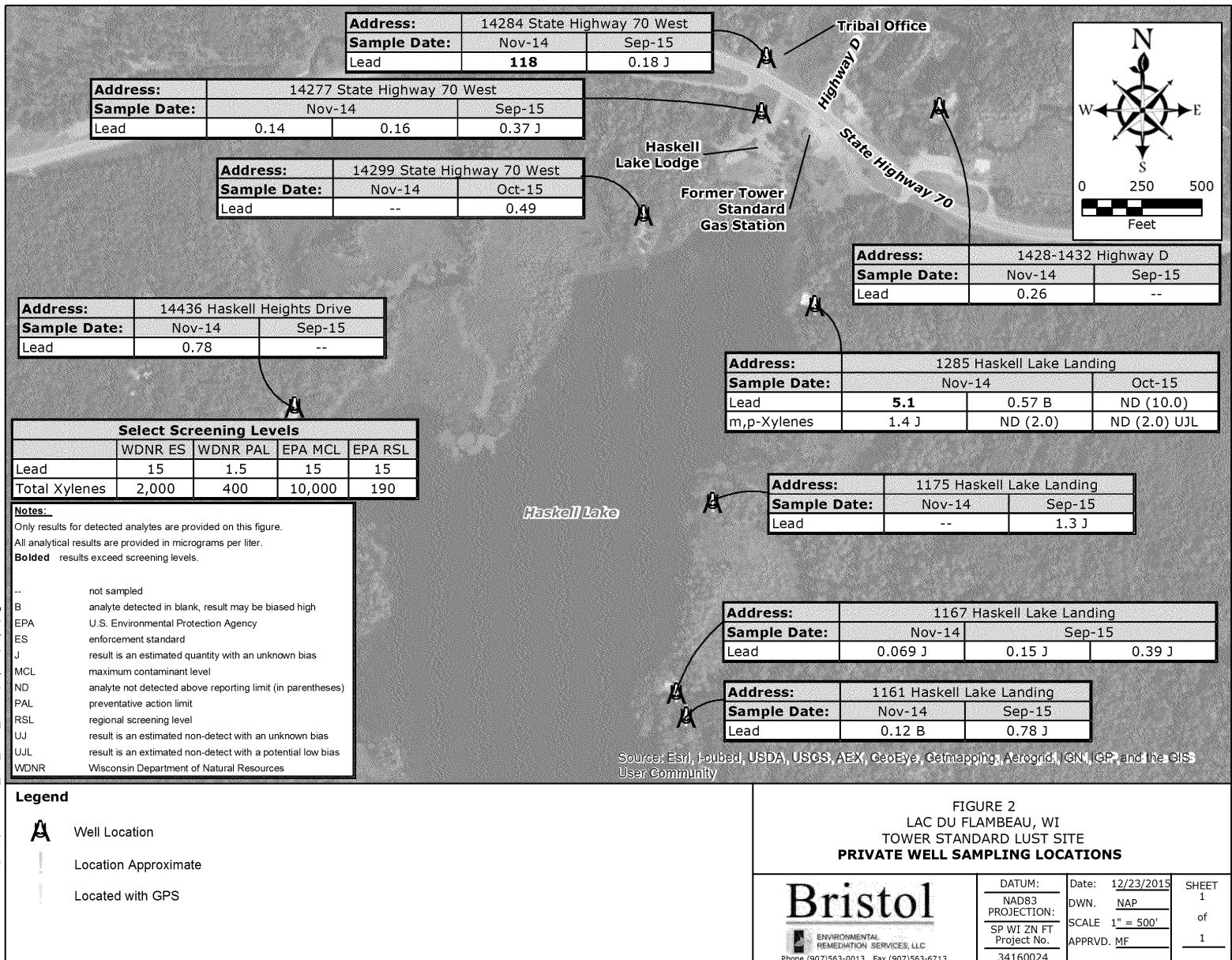
FIGURE 1  
LAC DU FLAMBEAU, WI  
EPA TASK ORDER 2012 TOWER STANDARD LUST SITE  
**SITE LOCATION MAP**

**Bristol**  
ENVIRONMENTAL  
REMEDIAL SERVICES, LLC  
Phone (907)563-0013 Fax (907)563-6713

34160024

34160024

DATUM:	6/2/2015	SHEET
NAD83	NAP	1
PROJECTION:		of
SP WI ZN FT	1" = 2 mi	1
Project No.	APPRVD. JSD	



## **APPENDIX A**

### Field Forms







## TAP WATER SAMPLE DATA SHEET

### Project Information

EPA Task Order No.: 2012 Bristol Project No.: 34160024  
 EPA Site Name: Tower Standard LUST Site

### Property-Specific Information

Property Address: Haskell Lake Lodge  
 Property Contact: Kristen Hanson  
 Date of Visit: 9/24

### Available Water System Information and Property-Specific Sample Collection Location

Does the residence/business have an in-line treatment system?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Was the sample collected near the pressure tank or other pre-treatment location?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If applicable, were the hoses, filters, or aerators disconnected prior to collecting the sample?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Did the sample have an odor, sheen or other indications of potential petroleum contamination?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Additional Information: \_\_\_\_\_

### Sample Collection Information

Sample ID: Haskell Lake Lodge  
 Date & Time Collected: 9/24 3:15  
 Sampler's Name: Luke S.  
 Analyses Requested: Cd, Pb, VOC, EDB, MTBE

Duplicate Sample ID: \_\_\_\_\_

Matrix Spike/Matrix Spike Duplicate Sample?

Yes

No

Trip Blank Required for Shipment?

Yes

No

### Purging and Parameter Measurement Data

Time	Minutes Purged	pH	Conductivity ( $\mu\text{S}/\text{cm}$ )	Turbidity (NTUs)	Temp °C	Notes
2:15	7	6.93	1319	25	13.7	
3:19	4	6.91	1294	25	17.3	
2:21	2	6.94	1294	25	17.1	

Run the tap water until the measured turbidity is at or below 10 nephelometric turbidity units (NTUs), pH remains constant at  $\pm 0.1$  units, and the specific conductance varies no more than 10 percent. The tap water will be allowed to run until turbidity has been measured at or below 10 NTUs on two consecutive measurements and pH and specific conductance have stabilized. If the stability parameters have not been met after 20 minutes, Bristol or the EPA SME will be contacted to decide whether to collect the sample or continue monitoring until the parameters stabilize.

Sampler's Signature: L.S. Date: 9/24

QA Reviewer Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## TAP WATER SAMPLE DATA SHEET

### Project Information

EPA Task Order No.: 2012

Bristol Project No.: 34160024

EPA Site Name: Tower Standard LUST Site

### Property-Specific Information

Property Address: 1285 Haskell Lake Landing  
 Property Contact: Sue and Harry Burnman 920-922-4541  
 Date of Visit: 10/12/2015

### Available Water System Information and Property-Specific Sample Collection Location

Does the residence/business have an in-line treatment system?

 Yes No X

Was the sample collected near the pressure tank or other pre-treatment location?

 Yes NoIf applicable, were the hoses, filters, or aerators disconnected prior to collecting the sample? N/A Yes No

Did the sample have an odor, sheen or other indications of potential petroleum contamination?

 Yes No

Additional Information: \_\_\_\_\_

 X

### Sample Collection Information

Sample ID: 1285 Haskell Lake LandingDate & Time Collected: 10/12/2015Sampler's Name: Kristen Hanson

Analyses Requested:

Cd, Pb, VOC, MTBE, EDB, PAH

Duplicate Sample ID: \_\_\_\_\_

 Yes No

Matrix Spike/Matrix Spike Duplicate Sample? \_\_\_\_\_

 Yes No

Trip Blank Required for Shipment? \_\_\_\_\_

### Purging and Parameter Measurement Data

Time	Minutes Purged	pH	Conductivity ( $\mu\text{S}/\text{cm}$ )	Turbidity (NTUs)	Temp °C	Notes
10:39		7.42	184	<5	13.7	
10:45		7.24	183	<5	13.55	Pump on -
10:47		7.13	169	<5	11.20	
10:50		7.08	177	<5	12.41	
10:53		7.25	179	<5	13.01	
10:56		7.35	179	<5	13.06	
10:57		7.34	181	<5	13.09	

Run the tap water until the measured turbidity is at or below 10 nephelometric turbidity units (NTUs), pH remains constant at  $\pm 0.1$  units, and the specific conductance varies no more than 10 percent. The tap water will be allowed to run until turbidity has been measured at or below 10 NTUs on two consecutive measurements and pH and specific conductance have stabilized. If the stability parameters have not been met after 20 minutes, Bristol or the EPA SME will be contacted to decide whether to collect the sample or continue monitoring until the parameters stabilize.

Sampler's Signature: KristenDate: 10/12/2015

QA Reviewer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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## TAP WATER SAMPLE DATA SHEET

### Project Information

EPA Task Order No.: 2012Bristol Project No.: 34160024EPA Site Name: Tower Standard LUST Site

### Property-Specific Information

Property Address: 14299 State Highway 70      12001 43rd Ave  
 Property Contact: Sam & Gail Wills - mailing address - Pleasant Prairie  
 Date of Visit: 10/13/2015      262-358-3043 ext 53158

### Available Water System Information and Property-Specific Sample Collection Location

Does the residence/business have an in-line treatment system?  Yes  No  XWas the sample collected near the pressure tank or other pre-treatment location?  Yes  NoIf applicable, were the hoses, filters, or aerators disconnected prior to collecting the sample?  Yes  NoDid the sample have an odor, sheen or other indications of potential petroleum contamination?  Yes  No  X

Additional Information: \_\_\_\_\_

### Sample Collection Information

Sample ID: 14299 State Highway 70Date & Time Collected: 10/13/2015 9:17 amSampler's Name: Krysten Hanson

Analyses Requested:

Cd, Pb, VOC, MTBE, EDB, PAH

Duplicate Sample ID: \_\_\_\_\_

Matrix Spike/Matrix Spike Duplicate Sample?  Yes  No  XTrip Blank Required for Shipment?  Yes  No

### Purging and Parameter Measurement Data

Time	Minutes Purged	pH	Conductivity ( $\mu$ S/cm)	Turbidity (NTUs)	Temp °C	Notes
9:04	2	6.3	222	≤5	16.21	
9:05		6.5	214	≤5	13.37	
9:06		6.65	210	≤5	12.62	
9:07		6.87	196	≤5	12.08	
9:08		6.87	198	≤5	12.07	
9:08		6.90	200	≤5	11.95	
9:09		6.94	197	≤5	11.83	
9:10		6.99	200	≤5	11.79	
9:11		7.03	195	≤5	11.81	
9:12		7.05	195	≤5	11.82	
9:13		7.08	195	≤5	11.65	

Run the tap water until the measured turbidity is at or below 10 nephelometric turbidity units (NTUs), pH remains constant at  $\pm 0.1$  units, and the specific conductance varies no more than 10 percent. The tap water will be allowed to run until turbidity has been measured at or below 10 NTUs on two consecutive measurements and pH and specific conductance have stabilized. If the stability parameters have not been met after 20 minutes, Bristol or the EPA SME will be contacted to decide whether to collect the sample or continue monitoring until the parameters stabilize.

Sampler's Signature: Krysten HansonDate: 10/13/2015

QA Reviewer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

9:14

7.08 195 ≤5 11.65

9:15

7.08 195 ≤5 11.66

**APPENDIX B**

Analytical Reports

October 06, 2015

Matt Faust  
Bristol Environmental Remediation Services,  
LLC  
111 W. 16th Avenue  
Anchorage, AK 99501

RE: Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager  
timothy.sandager@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: Pace
Alaska Certification #: UST-078	Montana Certification #: MT0092
Alaska Certification #MN00064	Nevada Certification #: MN_00064
Alabama Certification #40770	Nebraska Certification #: Pace
Arizona Certification #: AZ-0014	New Jersey Certification #: MN-002
Arkansas Certification #: 88-0680	New York Certification #: 11647
California Certification #: 01155CA	North Carolina Certification #: 530
Colorado Certification #Pace	North Carolina State Public Health #: 27700
Connecticut Certification #: PH-0256	North Dakota Certification #: R-036
EPA Region 8 Certification #: 8TMS-L	Ohio EPA #: 4150
Florida/NELAP Certification #: E87605	Ohio VAP Certification #: CL101
Guam Certification #:14-008r	Oklahoma Certification #: 9507
Georgia Certification #: 959	Oregon Certification #: MN200001
Georgia EPD #: Pace	Oregon Certification #: MN300001
Idaho Certification #: MN00064	Pennsylvania Certification #: 68-00563
Hawaii Certification #MN00064	Puerto Rico Certification
Illinois Certification #: 200011	Saipan (CNMI) #:MP0003
Indiana Certification#C-MN-01	South Carolina #:74003001
Iowa Certification #: 368	Texas Certification #: T104704192
Kansas Certification #: E-10167	Tennessee Certification #: 02818
Kentucky Dept of Envi. Protection - DW #90062	Utah Certification #: MN000642013-4
Kentucky Dept of Envi. Protection - WV #90062	Virginia DGS Certification #: 251
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #:9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan DEPH Certification #: 9909	

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Tower Standard Lust Site  
 Pace Project No.: 10323991

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10323991001	1175 HASHELL LAKE	Water	09/24/15 01:00	09/28/15 10:15
10323991002	1161 HASHELL LAKE (ROAD)	Water	09/24/15 01:40	09/28/15 10:15
10323991003	1167 HLR	Water	09/24/15 02:40	09/28/15 10:15
10323991004	DUP-1 1167 HLR	Water	09/24/15 02:40	09/28/15 10:15
10323991005	HASHELL LAKE LODGE	Water	09/24/15 03:15	09/28/15 10:15
10323991006	TRIBALL OFFICE	Water	09/24/15 03:40	09/28/15 10:15

## REPORT OF LABORATORY ANALYSIS

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Page 3 of 17

## SAMPLE ANALYTE COUNT

Project: Tower Standard Lust Site  
 Pace Project No.: 10323991

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10323991001	1175 HASHELL LAKE	EPA 8270D by SIM	AS1	18
10323991002	1161 HASHELL LAKE (ROAD)	EPA 8270D by SIM	AS1	18
10323991003	1167 HLR	EPA 8270D by SIM	AS1	18
10323991004	DUP-1 1167 HLR	EPA 8270D by SIM	AS1	18
10323991005	HASHELL LAKE LODGE	EPA 8270D by SIM	AS1	18
10323991006	TRIBALL OFFICE	EPA 8270D by SIM	AS1	18

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Tower Standard Lust Site

Pace Project No.: 10323991

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** Bristol Environmental Remediation Services, LLC

**Date:** October 06, 2015

### General Information:

6 samples were analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: 1175 HASHELL LAKE	Lab ID: 10323991001	Collected: 09/24/15 01:00	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>		Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C						
Acenaphthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	83-32-9	
Acenaphthylene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	208-96-8	
Anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	207-08-9	
Chrysene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	53-70-3	
Fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	206-44-0	
Fluorene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	193-39-5	
Naphthalene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	91-20-3	
Phenanthrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	85-01-8	
Pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	72	%.	52-125	1	09/30/15 09:52	10/04/15 02:34	321-60-8	
p-Terphenyl-d14 (S)	84	%.	62-125	1	09/30/15 09:52	10/04/15 02:34	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: 1161 HASHELL LAKE (ROAD) Lab ID: 10323991002 Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	83-32-9	
Acenaphthylene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	208-96-8	
Anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	207-08-9	
Chrysene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	53-70-3	
Fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	206-44-0	
Fluorene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	193-39-5	
Naphthalene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	91-20-3	
Phenanthrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	85-01-8	
Pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	75	%.	52-125	1	09/30/15 09:52	10/04/15 02:55	321-60-8	
p-Terphenyl-d14 (S)	87	%.	62-125	1	09/30/15 09:52	10/04/15 02:55	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: 1167 HLR	Lab ID: 10323991003	Collected: 09/24/15 02:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	83-32-9	
Acenaphthylene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	208-96-8	
Anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	207-08-9	
Chrysene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	53-70-3	
Fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	206-44-0	
Fluorene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	193-39-5	
Naphthalene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	91-20-3	
Phenanthrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	85-01-8	
Pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	85	%.	52-125	1	09/30/15 09:52	10/05/15 12:41	321-60-8	
p-Terphenyl-d14 (S)	89	%.	62-125	1	09/30/15 09:52	10/05/15 12:41	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: DUP-1 1167 HLR	Lab ID: 10323991004	Collected: 09/24/15 02:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	83-32-9	
Acenaphthylene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	208-96-8	
Anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	207-08-9	
Chrysene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	53-70-3	
Fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	206-44-0	
Fluorene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	193-39-5	
Naphthalene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	91-20-3	
Phenanthrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	85-01-8	
Pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	75	%.	52-125	1	09/30/15 09:52	10/05/15 13:03	321-60-8	
p-Terphenyl-d14 (S)	86	%.	62-125	1	09/30/15 09:52	10/05/15 13:03	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: HASHELL LAKE LODGE	Lab ID: 10323991005	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	83-32-9	
Acenaphthylene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	208-96-8	
Anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	207-08-9	
Chrysene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	53-70-3	
Fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	206-44-0	
Fluorene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	193-39-5	
Naphthalene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	91-20-3	
Phenanthrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	85-01-8	
Pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	73	%.	52-125	1	09/30/15 09:52	10/05/15 13:25	321-60-8	
p-Terphenyl-d14 (S)	82	%.	62-125	1	09/30/15 09:52	10/05/15 13:25	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

Sample: TRIBALL OFFICE	Lab ID: 10323991006	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	83-32-9	
Acenaphthylene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	208-96-8	
Anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	207-08-9	
Chrysene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	53-70-3	
Fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	206-44-0	
Fluorene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	193-39-5	
Naphthalene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	91-20-3	
Phenanthrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	85-01-8	
Pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	80	%.	52-125	1	09/30/15 09:52	10/05/15 13:46	321-60-8	
p-Terphenyl-d14 (S)	88	%.	62-125	1	09/30/15 09:52	10/05/15 13:46	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

QC Batch:	OEXT/30991	Analysis Method:	EPA 8270D by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270D PAH by SIM MSSV
Associated Lab Samples:	10323991001, 10323991002, 10323991003, 10323991004, 10323991005, 10323991006		

METHOD BLANK: 2094615                            Matrix: Water

Associated Lab Samples: 10323991001, 10323991002, 10323991003, 10323991004, 10323991005, 10323991006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	10/03/15 20:30	
Acenaphthylene	ug/L	ND	0.040	10/03/15 20:30	
Anthracene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(a)anthracene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(a)pyrene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Chrysene	ug/L	ND	0.040	10/03/15 20:30	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/03/15 20:30	
Fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Fluorene	ug/L	ND	0.040	10/03/15 20:30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/03/15 20:30	
Naphthalene	ug/L	ND	0.040	10/03/15 20:30	
Phenanthrene	ug/L	ND	0.040	10/03/15 20:30	
Pyrene	ug/L	ND	0.040	10/03/15 20:30	
2-Fluorobiphenyl (S)	%.	74	52-125	10/03/15 20:30	
p-Terphenyl-d14 (S)	%.	85	62-125	10/03/15 20:30	

LABORATORY CONTROL SAMPLE: 2094616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.77	77	44-125	
Acenaphthylene	ug/L	1	0.86	86	44-125	
Anthracene	ug/L	1	0.99	99	55-125	
Benzo(a)anthracene	ug/L	1	0.95	95	56-125	
Benzo(a)pyrene	ug/L	1	1.0	103	61-125	
Benzo(b)fluoranthene	ug/L	1	0.95	95	60-125	
Benzo(g,h,i)perylene	ug/L	1	0.94	94	53-125	
Benzo(k)fluoranthene	ug/L	1	1.0	103	59-125	
Chrysene	ug/L	1	0.86	86	61-125	
Dibenz(a,h)anthracene	ug/L	1	0.95	95	51-125	
Fluoranthene	ug/L	1	0.98	98	64-125	
Fluorene	ug/L	1	0.85	85	52-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.98	98	54-125	
Naphthalene	ug/L	1	0.74	74	35-125	
Phenanthrene	ug/L	1	0.78	78	55-125	
Pyrene	ug/L	1	0.94	94	59-125	
2-Fluorobiphenyl (S)	%.			77	52-125	
p-Terphenyl-d14 (S)	%.			91	62-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2094617 2094618														
Parameter	Units	MS		MSD		MS		MSD		MS		MSD		% Rec Limits	RPD RPD	Max Qual
		10323923001	Spike Result	Spike Conc.	Conc.	MS Result	MSD Result	% Rec	MS Result	MSD Result	% Rec	% Rec	MSD Result			
Acenaphthene	ug/L	<0.0033	1.1	1.1	0.73	0.75	69	66	44-125	2	30					
Acenaphthylene	ug/L	<0.0040	1.1	1.1	0.84	0.88	79	77	52-125	4	30					
Anthracene	ug/L	<0.0045	1.1	1.1	1.0	1.0	94	88	56-125	0	30					
Benzo(a)anthracene	ug/L	0.0050J	1.1	1.1	1.0	0.96	94	84	51-125	4	30					
Benzo(a)pyrene	ug/L	<0.0030	1.1	1.1	1.1	1.0	106	92	64-125	8	30					
Benzo(b)fluoranthene	ug/L	<0.0077	1.1	1.1	1.1	1.0	104	89	61-125	9	30					
Benzo(g,h,i)perylene	ug/L	<0.0054	1.1	1.1	0.96	0.93	90	81	53-125	4	30					
Benzo(k)fluoranthene	ug/L	<0.0038	1.1	1.1	1.0	0.93	96	82	59-125	9	30					
Chrysene	ug/L	<0.0053	1.1	1.1	0.93	0.87	87	77	56-125	6	30					
Dibenz(a,h)anthracene	ug/L	<0.0097	1.1	1.1	0.91	0.93	86	82	42-125	2	30					
Fluoranthene	ug/L	<0.0057	1.1	1.1	1.0	1.0	95	90	54-125	1	30					
Fluorene	ug/L	<0.0057	1.1	1.1	0.82	0.84	76	73	45-125	3	30					
Indeno(1,2,3-cd)pyrene	ug/L	<0.0056	1.1	1.1	1.0	0.93	94	82	44-125	7	30					
Naphthalene	ug/L	<0.0092	1.1	1.1	0.76	0.80	71	70	51-125	5	30					
Phenanthrene	ug/L	<0.013	1.1	1.1	0.77	0.79	72	69	61-125	2	30					
Pyrene	ug/L	<0.0065	1.1	1.1	0.94	0.93	88	81	63-125	1	30					
2-Fluorobiphenyl (S)	%.						68	66	52-125							
p-Terphenyl-d14 (S)	%.						84	77	62-125							

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2094619 2094620														
Parameter	Units	MS		MSD		MS		MSD		MS		MSD		% Rec Limits	RPD RPD	Max Qual
		10323991002	Spike Result	Spike Conc.	Conc.	MS Result	MSD Result	% Rec	MS Result	MSD Result	% Rec	% Rec	MSD Result			
Acenaphthene	ug/L	ND	1	1.1	0.72	0.86	69	81	44-125	19	30					
Acenaphthylene	ug/L	ND	1	1.1	0.78	0.93	75	88	52-125	19	30					
Anthracene	ug/L	ND	1	1.1	0.92	1.0	89	96	56-125	11	30					
Benzo(a)anthracene	ug/L	ND	1	1.1	0.88	0.99	85	93	51-125	11	30					
Benzo(a)pyrene	ug/L	ND	1	1.1	0.97	1.1	94	101	64-125	11	30					
Benzo(b)fluoranthene	ug/L	ND	1	1.1	0.93	1.0	90	98	61-125	12	30					
Benzo(g,h,i)perylene	ug/L	ND	1	1.1	0.92	1.0	89	94	53-125	8	30					
Benzo(k)fluoranthene	ug/L	ND	1	1.1	0.92	1.0	89	95	59-125	10	30					
Chrysene	ug/L	ND	1	1.1	0.82	0.91	80	85	56-125	10	30					
Dibenz(a,h)anthracene	ug/L	ND	1	1.1	0.88	0.97	85	91	42-125	9	30					
Fluoranthene	ug/L	ND	1	1.1	0.92	0.99	89	93	54-125	7	30					
Fluorene	ug/L	ND	1	1.1	0.79	0.92	77	86	45-125	14	30					
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1.1	0.92	1.0	89	98	44-125	13	30					
Naphthalene	ug/L	ND	1	1.1	0.68	0.84	66	79	51-125	21	30					
Phenanthrene	ug/L	ND	1	1.1	0.75	0.83	72	78	61-125	11	30					
Pyrene	ug/L	ND	1	1.1	0.90	0.99	87	93	63-125	9	30					
2-Fluorobiphenyl (S)	%.						70	82	52-125							
p-Terphenyl-d14 (S)	%.						82	87	62-125							

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Tower Standard Lust Site  
Pace Project No.: 10323991

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tower Standard Lust Site  
 Pace Project No.: 10323991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10323991001	1175 HASHELL LAKE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991002	1161 HASHELL LAKE (ROAD)	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991003	1167 HLR	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991004	DUP-1 1167 HLR	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991005	HASHELL LAKE LODGE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991006	TRIBALL OFFICE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181

## REPORT OF LABORATORY ANALYSIS

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## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10323991

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>1</u> of <u>1</u>
Company: <u>Bristol Environmental Sv.</u> Address: <u>111 W 16th Ave. 3rd Floor</u> <u>Anchorage, AK 99501</u> Email To: <u>Julie Sharp-Dahl</u> Phone: <u>907 743 9374</u> Fax: <u></u> Requested Due Date/TAT: <u>10 Business Days</u>		Report To: <u>Julie Sharp-Dahl</u> Copy To: <u>LeSa Nelson</u> Purchase Order No.: <u></u> Project Name: <u>Tower Standard CUST SITE</u> Project Number: <u>BEBSS# 341160024 ; EPA 2012</u>		Attention: <u>Julie Sharp-Dahl</u> Company Name: <u>Bristol Environmental Remediation</u> Address: <u>See Client Info</u> Pace Quote Reference: <u>00019643</u> Pace Project Manager: <u>Tim Sandager</u> Pace Profile #: <u></u>		1715044 REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE  Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)  SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)								
				COMPOSITE START		COMPOSITE END/GRAB														
				DATE	TIME	DATE	TIME					PAT	PAH	PCB	PCP					
1	1175 Haskell Lake Loring	WT	G			9/24	1:00	15	1	X			X							
2	1161 (Haskell Lake Roady) (HLR) ↗					9/24	1140	11	1	X			X			002				
3																.				
4	1161 HLR MSDS					9/24	1:40	11	2	X			X			003				
5	1167 HLR					9/24	2:40	11	1	X			X			004				
6	DUP-1 (1167 HLR)					9/24	2:40	11	1	X			X			005				
7	Haskell Lake Lodge					9/24	3:15	12	1	X			X			006				
8	Tribal office					9/24	3:40	11	1	X			X							
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
	Luke Specieler CWE	9/25	10:00	Greg Pace	9/25/15	10:15	125	X X X

ORIGINAL	SAMPLER NAME AND SIGNATURE		Temp in °C Received on ice (Y/N) Custody Sealed Cooler (Y/N) Samples intact (Y/N)
	PRINT Name of SAMPLER: <u>Lucas Specieler</u>		PRINT Name of SAMPLER: <u>Lucas Specieler</u>
	SIGNATURE of SAMPLER: <u>luke</u>		DATE Signed (MM/DD/YY): <u>09/25/15</u>

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

EPA-R5-2017-010506\_0004677

<i>Pace Analytical</i>	Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: <b>F-MN-L-213-rev.13</b>	Issuing Authority: <b>Pace Minnesota Quality Office</b>

<b>Sample Condition Upon Receipt</b>	<b>Client Name:</b> <i>CWE / Bristol</i>	<b>Project #:</b>	<b>WO# :</b> <b>10323991</b>
<b>Courier:</b>	<input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client	<b>Tracking Number:</b> _____	
<b>Custody Seal on Cooler/Box Present?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Seals Intact?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Optional:</b> Proj. Due Date: _____ Proj. Name: _____
<b>Packing Material:</b> <input checked="" type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____		<b>Temp Blank?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Thermometer Used:</b>	<input type="checkbox"/> B88A9130516413	<b>Type of Ice:</b> <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun	<input type="checkbox"/> B88A912167504 <input type="checkbox"/> B88A0143310098
<b>Cooler Temp Read (°C):</b> <i>12.5</i>	<b>Cooler Temp Corrected (°C):</b> <i>12.5</i>	<b>Biological Tissue Frozen?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<b>Temp should be above freezing to 6°C</b>		<b>Correction Factor:</b> <i>0.0</i> <b>Date and Initials of Person Examining Contents:</b> <i>ET 9/28/16</i>	
<b>USDA Regulated Soil</b> ( <input checked="" type="checkbox"/> N/A, water sample)			
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?		<input type="checkbox"/> Yes <input type="checkbox"/> No including Hawaii and Puerto Rico? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.</b>			
<b>COMMENTS:</b>			
<b>Chain of Custody Present?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
<b>Chain of Custody Filled Out?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
<b>Chain of Custody Relinquished?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
<b>Sampler Name and/or Signature on COC?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
<b>Samples Arrived within Hold Time?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
<b>Short Hold Time Analysis (&lt;72 hr)?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
<b>Rush Turn Around Time Requested?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
<b>Sufficient Volume?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
<b>Correct Containers Used?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<i>ET 9/26/15</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<b>Containers Intact?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
<b>Filtered Volume Received for Dissolved Tests?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container	
<b>Sample Labels Match COC?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
<b>-Includes Date/Time/ID/Analysis Matrix:</b> <i>WTF</i>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed:	Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Pace Trip Blank Lot # (if purchased):			

**CLIENT NOTIFICATION/RESOLUTION**
**Field Data Required?**  Yes     No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: *[Signature]*

Date: *9/29/15*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414  
(612)607-1700

October 12, 2015

Matt Faust  
Bristol Environmental Remediation Services,  
LLC  
111 W. 16th Avenue  
Anchorage, AK 99501

RE: Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Timothy Sandager".

Timothy Sandager  
timothy.sandager@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Alabama Certification #40770  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: 8TMS-L  
Florida/NELAP Certification #: E87605  
Guam Certification #:14-008r  
Georgia Certification #: 959  
Georgia EPD #: Pace  
Idaho Certification #: MN00064  
Hawaii Certification #MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Kentucky Dept of Envi. Protection - WV #90062  
Louisiana DEQ Certification #: 3086  
Louisiana DHH #: LA140001  
Maine Certification #: 2013011  
Maryland Certification #: 322  
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT0092  
Nevada Certification #: MN\_00064  
Nebraska Certification #: Pace  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Carolina State Public Health #: 27700  
North Dakota Certification #: R-036  
Ohio EPA #: 4150  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Saipan (CNMI) #: MP0003  
South Carolina #: 74003001  
Texas Certification #: T104704192  
Tennessee Certification #: 02818  
Utah Certification #: MN000642013-4  
Virginia DGS Certification #: 251  
Washington Certification #: C486  
West Virginia Certification #: 382  
West Virginia DHHR #: 9952C  
Wisconsin Certification #: 999407970

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
Virginia VELAP ID: 460263

North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
US Dept of Agriculture #: S-76505  
Virginia VELAP Certification ID: 460263  
Virginia VELAP ID: 460263  
Wisconsin Certification #: 405132750

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Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414  
(612)607-1700

## SAMPLE SUMMARY

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10324016001	1175 HASHELL LAKE LANDING	Water	09/24/15 01:00	09/28/15 10:15
10324016002	1175 HASHELL LAKE LANDING	Water	09/24/15 01:00	09/28/15 10:15
10324016003	1161 HASHELL LAKE LAND	Water	09/24/15 01:40	09/28/15 10:15
10324016004	1161 HASHELL LAKE LAND	Water	09/24/15 01:40	09/28/15 10:15
10324016005	1167 HASHELL LAKE RD	Water	09/24/15 04:40	09/28/15 10:15
10324016006	DUP-1	Water	09/24/15 04:40	09/28/15 10:15
10324016007	HASHELL LAKE LODGE	Water	09/24/15 03:15	09/28/15 10:15
10324016008	TRIBAL OFFICE	Water	09/24/15 03:40	09/28/15 10:15
10324016009	TRIP BLANK	Water		09/28/15 10:15

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10324016001	1175 HASHELL LAKE LANDING	EPA 6020A	TT3	2	PASI-M
10324016002	1175 HASHELL LAKE LANDING	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016003	1161 HASHELL LAKE LAND	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016005	1167 HASHELL LAKE RD	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016006	DUP-1	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016007	HASHELL LAKE LODGE	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016008	TRIBAL OFFICE	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016009	TRIP BLANK	EPA 8260	LAP	71	PASI-G

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
<b>10324016001</b>	<b>1175 HASHELL LAKE LANDING</b>						
EPA 6020A	Lead	1.3	ug/L	0.10	10/09/15 18:07		
<b>10324016003</b>	<b>1161 HASHELL LAKE LAND</b>						
EPA 6020A	Lead	0.78	ug/L	0.10	10/09/15 18:13		
<b>10324016005</b>	<b>1167 HASHELL LAKE RD</b>						
EPA 6020A	Lead	0.15	ug/L	0.10	10/09/15 18:28		
<b>10324016006</b>	<b>DUP-1</b>						
EPA 6020A	Lead	0.39	ug/L	0.10	10/09/15 18:31		
<b>10324016007</b>	<b>HASHELL LAKE LODGE</b>						
EPA 6020A	Lead	0.37	ug/L	0.10	10/09/15 18:34		
<b>10324016008</b>	<b>TRIBAL OFFICE</b>						
EPA 6020A	Lead	0.18	ug/L	0.10	10/09/15 18:36		

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

---

**Method:** EPA 6020A  
**Description:** 6020A MET ICPMS  
**Client:** Bristol Environmental Remediation Services, LLC  
**Date:** October 12, 2015

### General Information:

7 samples were analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** Bristol Environmental Remediation Services, LLC  
**Date:** October 12, 2015

**General Information:**

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

---

Sample: 1175 HASHELL LAKE  
 LANDING      Lab ID: 10324016001      Collected: 09/24/15 01:00      Received: 09/28/15 10:15      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:07	7440-43-9	
Lead	1.3	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:07	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: 1175 HASHELL LAKE  
 LANDING      Lab ID: 10324016002      Collected: 09/24/15 01:00      Received: 09/28/15 10:15      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:10	7440-43-9	
Lead	ND	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:10	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 20:44	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 20:44	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 20:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 20:44	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 20:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 20:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 20:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 20:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 20:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 20:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 20:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 20:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 20:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 20:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 20:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 20:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 20:44	87-68-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: 1175 HASHELL LAKE  
LANDING      Lab ID: 10324016002      Collected: 09/24/15 01:00      Received: 09/28/15 10:15      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 20:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 20:44	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 20:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 20:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 20:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 20:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 20:44	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 20:44	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 20:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 20:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 20:44	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 20:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 20:44	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/02/15 20:44	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/02/15 20:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		10/02/15 20:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: 1161 HASHELL LAKE LAND Lab ID: 10324016003 Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:13	7440-43-9	
Lead	<b>0.78</b>	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:13	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 15:28	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 15:28	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 15:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 15:28	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 15:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 15:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 15:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 15:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 15:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 15:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 15:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 15:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 15:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 15:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 15:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 15:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 15:28	87-68-3	

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: 1161 HASHELL LAKE LAND Lab ID: 10324016003 Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 15:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 15:28	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 15:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 15:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 15:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 15:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 15:28	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 15:28	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 15:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 15:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 15:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 15:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 15:28	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 15:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 15:28	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 15:28	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/02/15 15:28	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		10/02/15 15:28	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: 1167 HASHELL LAKE RD      Lab ID: 10324016005      Collected: 09/24/15 04:40      Received: 09/28/15 10:15      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:28	7440-43-9	
Lead	0.15	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:28	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:29	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:29	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:29	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:29	98-82-8	

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: 1167 HASHELL LAKE RD      Lab ID: 10324016005      Collected: 09/24/15 04:40      Received: 09/28/15 10:15      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:29	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:29	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:29	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:29	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:29	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 21:29	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 21:29	2037-26-5	

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: DUP-1	Lab ID: 10324016006	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:31	7440-43-9	
Lead	0.39	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:31	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:06	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:06	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:06	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:06	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:06	98-82-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: DUP-1	Lab ID: 10324016006	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:06	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:06	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:06	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:06	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:06	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 21:06	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:06	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		10/02/15 21:06	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: HASHELL LAKE LODGE	Lab ID: 10324016007	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:34	7440-43-9	
Lead	0.37	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:34	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:51	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:51	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:51	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:51	98-82-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: HASHELL LAKE LODGE	Lab ID: 10324016007	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:51	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:51	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:51	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:51	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:51	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/02/15 21:51	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130	1		10/02/15 21:51	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: TRIBAL OFFICE	Lab ID: 10324016008	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:36	7440-43-9	
Lead	0.18	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:36	7439-92-1	
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 22:14	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 22:14	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 22:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 22:14	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 22:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 22:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 22:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 22:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 22:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 22:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 22:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 22:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 22:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 22:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 22:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 22:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 22:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 22:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 22:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 22:14	98-82-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Sample: TRIBAL OFFICE	Lab ID: 10324016008	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 22:14	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 22:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 22:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 22:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 22:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 22:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 22:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 22:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 22:14	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 22:14	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 22:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 22:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 22:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 22:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 22:14	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 22:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 22:14	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 22:14	460-00-4	
Dibromofluoromethane (S)	111	%	70-130	1		10/02/15 22:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 22:14	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: TRIP BLANK	Lab ID: 10324016009	Collected:	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 19:36	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 19:36	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 19:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 19:36	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 19:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 19:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 19:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 19:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 19:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 19:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 19:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 19:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 19:36	124-48-1	
1,2-Dibromethane (EDB)	ND	ug/L	1.0	1		10/02/15 19:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 19:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 19:36	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 19:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 19:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 19:36	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 19:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 19:36	1634-04-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Sample: TRIP BLANK	Lab ID: 10324016009	Collected:	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	5.0	1		10/02/15 19:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 19:36	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 19:36	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 19:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 19:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 19:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 19:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 19:36	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 19:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 19:36	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	91	%	70-130	1		10/02/15 19:36	460-00-4	HS
Dibromofluoromethane (S)	115	%	70-130	1		10/02/15 19:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 19:36	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

QC Batch:	MPRP/58431	Analysis Method:	EPA 6020A
QC Batch Method:	EPA 3020	Analysis Description:	6020A Water UPD4
Associated Lab Samples:	10324016001, 10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008		

METHOD BLANK: 2098506 Matrix: Water  
Associated Lab Samples: 10324016001, 10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Cadmium	ug/L	ND	0.080	10/09/15 18:00	
Lead	ug/L	ND	0.10	10/09/15 18:00	

LABORATORY CONTROL SAMPLE: 2098507

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Cadmium	ug/L	80	89.7	112	80-120	
Lead	ug/L	80	89.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2098508 2098509

Parameter	Units	10324016003	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike								
Cadmium	ug/L	ND	80	80	84.7	86.6	106	108	75-125	2	20	
Lead	ug/L	0.78	80	80	86.6	86.8	107	108	75-125	0	20	

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## QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

QC Batch:	MSV/30425	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008, 10324016009		

METHOD BLANK: 1230835 Matrix: Water

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	10/02/15 13:35	
1,1-Dichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
1,1-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/02/15 13:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/02/15 13:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/02/15 13:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
1,3-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
2,2-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
2-Butanone (MEK)	ug/L	ND	20.0	10/02/15 13:35	
2-Chlorotoluene	ug/L	ND	1.0	10/02/15 13:35	
4-Chlorotoluene	ug/L	ND	1.0	10/02/15 13:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/02/15 13:35	
Acetone	ug/L	ND	20.0	10/02/15 13:35	
Allyl chloride	ug/L	ND	5.0	10/02/15 13:35	
Benzene	ug/L	ND	1.0	10/02/15 13:35	
Bromobenzene	ug/L	ND	1.0	10/02/15 13:35	
Bromochloromethane	ug/L	ND	1.0	10/02/15 13:35	
Bromodichloromethane	ug/L	ND	1.0	10/02/15 13:35	
Bromoform	ug/L	ND	1.0	10/02/15 13:35	
Bromomethane	ug/L	ND	5.0	10/02/15 13:35	
Carbon tetrachloride	ug/L	ND	1.0	10/02/15 13:35	
Chlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
Chloroethane	ug/L	ND	1.0	10/02/15 13:35	
Chloroform	ug/L	ND	5.0	10/02/15 13:35	
Chloromethane	ug/L	ND	1.0	10/02/15 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	

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## QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

METHOD BLANK: 1230835

Matrix: Water

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/02/15 13:35	
Dibromomethane	ug/L	ND	1.0	10/02/15 13:35	
Dichlorodifluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Dichlorofluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Diethyl ether (Ethyl ether)	ug/L	ND	5.0	10/02/15 13:35	
Ethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/02/15 13:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/02/15 13:35	
m&p-Xylene	ug/L	ND	2.0	10/02/15 13:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/02/15 13:35	
Methylene Chloride	ug/L	ND	1.0	10/02/15 13:35	
n-Butylbenzene	ug/L	ND	1.0	10/02/15 13:35	
n-Propylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Naphthalene	ug/L	ND	5.0	10/02/15 13:35	
o-Xylene	ug/L	ND	1.0	10/02/15 13:35	
p-Isopropyltoluene	ug/L	ND	1.0	10/02/15 13:35	
sec-Butylbenzene	ug/L	ND	5.0	10/02/15 13:35	
Styrene	ug/L	ND	1.0	10/02/15 13:35	
tert-Butylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Tetrachloroethene	ug/L	ND	1.0	10/02/15 13:35	
Tetrahydrofuran	ug/L	ND	5.0	10/02/15 13:35	
Toluene	ug/L	ND	1.0	10/02/15 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	
Trichloroethene	ug/L	ND	1.0	10/02/15 13:35	
Trichlorofluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Vinyl chloride	ug/L	ND	1.0	10/02/15 13:35	
4-Bromofluorobenzene (S)	%	94	70-130	10/02/15 13:35	
Dibromofluoromethane (S)	%	111	70-130	10/02/15 13:35	
Toluene-d8 (S)	%	99	70-130	10/02/15 13:35	

LABORATORY CONTROL SAMPLE: 1230836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.0	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.5	109	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	55.9	112	50-150	
1,1-Dichloroethane	ug/L	50	46.7	93	70-130	
1,1-Dichloroethene	ug/L	50	55.0	110	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.9	120	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	52.2	104	70-130	

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**QUALITY CONTROL DATA**

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

LABORATORY CONTROL SAMPLE: 1230836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	55.4	111	70-131	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	57.2	114	68-130	
Bromomethane	ug/L	50	30.1	60	38-137	
Carbon tetrachloride	ug/L	50	60.0	120	70-130	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	45.1	90	70-136	
Chloroform	ug/L	50	54.3	109	70-130	
Chloromethane	ug/L	50	35.3	71	48-144	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	55.4	111	70-130	
Dichlorodifluoromethane	ug/L	50	38.4	77	33-157	
Ethylbenzene	ug/L	50	54.8	110	70-132	
Isopropylbenzene (Cumene)	ug/L	50	55.3	111	70-130	
m&p-Xylene	ug/L	100	109	109	70-131	
Methyl-tert-butyl ether	ug/L	50	49.2	98	48-141	
Methylene Chloride	ug/L	50	53.6	107	70-130	
o-Xylene	ug/L	50	52.8	106	70-131	
Styrene	ug/L	50	54.9	110	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	53.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	58.5	117	50-150	
Vinyl chloride	ug/L	50	42.6	85	65-142	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1230837 1230838

Parameter	Units	10324016003		MS		MSD		MS		MSD		% Rec Limits	RPD RPD	Max Qual
		Result	Spike Conc.	Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec	RPD RPD			
1,1,1-Trichloroethane	ug/L	ND	50	50	57.2	57.8	114	116	70-130	116	1	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	58.0	56.0	116	112	70-130	112	3	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	52.9	52.8	106	106	70-130	106	0	20		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.4	54.5	109	109	50-151	109	0	20		
1,1-Dichloroethane	ug/L	ND	50	50	45.6	46.2	91	92	70-134	92	1	20		
1,1-Dichloroethene	ug/L	ND	50	50	53.5	54.8	107	110	70-139	110	2	20		

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## QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

Parameter	Units	10324016003		1230837		1230838		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result							
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.4	51.4	102	102	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	61.9	62.8	124	126	50-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.1	55.9	112	112	70-130	0	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	54.2	53.5	108	107	70-130	1	20		
1,2-Dichloroethane	ug/L	ND	50	50	54.8	55.0	110	110	70-132	0	20		
1,2-Dichloropropane	ug/L	ND	50	50	45.5	45.5	91	91	70-130	0	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	53.4	52.4	106	105	70-130	2	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	52.2	49.5	104	99	70-130	5	20		
Benzene	ug/L	ND	50	50	50.5	51.3	101	103	70-130	2	20		
Bromodichloromethane	ug/L	ND	50	50	54.0	54.4	108	109	70-132	1	20		
Bromoform	ug/L	ND	50	50	57.2	56.0	114	112	68-130	2	20		
Bromomethane	ug/L	ND	50	50	31.4	34.2	63	68	38-141	9	20		
Carbon tetrachloride	ug/L	ND	50	50	59.1	59.7	118	119	70-130	1	20		
Chlorobenzene	ug/L	ND	50	50	52.7	52.8	105	106	70-130	0	20		
Chloroethane	ug/L	ND	50	50	44.5	46.1	89	92	66-152	3	20		
Chloroform	ug/L	ND	50	50	52.9	54.2	106	108	70-130	2	20		
Chloromethane	ug/L	ND	50	50	33.7	36.3	67	72	44-151	7	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.1	53.3	104	107	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.7	51.1	101	102	70-130	1	20		
Dibromochloromethane	ug/L	ND	50	50	55.7	55.6	111	111	70-130	0	20		
Dichlorodifluoromethane	ug/L	ND	50	50	36.5	37.7	73	75	29-160	3	20		
Ethylbenzene	ug/L	ND	50	50	55.9	55.2	112	110	70-132	1	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	55.8	55.4	112	111	70-130	1	20		
m&p-Xylene	ug/L	ND	100	100	110	110	110	109	70-131	1	20		
Methyl-tert-butyl ether	ug/L	ND	50	50	49.2	50.2	98	100	48-143	2	20		
Methylene Chloride	ug/L	ND	50	50	51.3	52.9	103	106	70-130	3	20		
o-Xylene	ug/L	ND	50	50	54.0	53.9	108	108	70-131	0	20		
Styrene	ug/L	ND	50	50	55.6	55.3	111	111	70-130	1	20		
Tetrachloroethene	ug/L	ND	50	50	51.0	49.9	102	100	70-130	2	20		
Toluene	ug/L	ND	50	50	53.1	52.5	106	105	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.3	53.9	107	108	70-132	1	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.9	48.3	98	97	70-130	1	20		
Trichloroethene	ug/L	ND	50	50	53.3	53.7	107	107	70-130	1	20		
Trichlorofluoromethane	ug/L	ND	50	50	57.8	58.3	116	117	50-153	1	20		
Vinyl chloride	ug/L	ND	50	50	40.9	42.8	82	86	60-155	4	20		
4-Bromofluorobenzene (S)	%						103	103	70-130				
Dibromofluoromethane (S)	%						108	111	70-130				
Toluene-d8 (S)	%						101	99	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## QUALIFIERS

Project: BERS#31160024.EPA2012 TOWER ST  
Pace Project No.: 10324016

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#31160024.EPA2012 TOWER ST  
 Pace Project No.: 10324016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10324016001	1175 HASHELL LAKE LANDING	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016002	1175 HASHELL LAKE LANDING	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016003	1161 HASHELL LAKE LAND	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016005	1167 HASHELL LAKE RD	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016006	DUP-1	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016007	HASHELL LAKE LODGE	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016008	TRIBAL OFFICE	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016002	1175 HASHELL LAKE LANDING	EPA 8260	MSV/30425		
10324016003	1161 HASHELL LAKE LAND	EPA 8260	MSV/30425		
10324016005	1167 HASHELL LAKE RD	EPA 8260	MSV/30425		
10324016006	DUP-1	EPA 8260	MSV/30425		
10324016007	HASHELL LAKE LODGE	EPA 8260	MSV/30425		
10324016008	TRIBAL OFFICE	EPA 8260	MSV/30425		
10324016009	TRIP BLANK	EPA 8260	MSV/30425		

## REPORT OF LABORATORY ANALYSIS



## **CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>of</u>
Company: <b>Bristol Environmental SV.</b>	Report To: <b>Julie Sharp-Dahl</b>	Attention: <b>Julie Sharp - Dahl</b>	Address: <b>111 W 16th Ave. 3rd Floor</b>	Company Name: <b>Bristol Environmental Recyclers</b>	REGULATORY AGENCY	
Address: <b>Anchorage, AK 99501</b>	Copy To: <b>Lesa Nelson</b>	Address: <b>See Client Info</b>	Email To: <b>Julie Sharp - Dahl</b>	Purchase Order No.:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Phone: <b>907-743-9894</b>	Project Name: <b>Tower Standard LUST Site</b>	Pace Quote Reference: <b>00019643</b>	Requested Due Date/TAT: <b>10 Business days</b>	Project Number: <b>EERS # 3116002-1: EPA 2012</b>	<input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
		Pace Project Manager: <b>Tim Sandager</b>		Pace Profile #:	Site Location: <b>W1</b>	
					STATE: <b>W1</b>	

ITEM #	Section D Required Client Information	Matrix Codes		SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)		
		MATRIX / CODE	MATRIX / CODE				COMPOSITE START		COMPOSITE END/GRAB				SAMPLE TEMP AT COLLECTION			Y/N	↓ Analysis Test ↓
		Drinking Water	DW				DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>		HNO <sub>3</sub>	HCl
1	1175 Haskell Lake Landing	dw	G	9/24	1:00	15	7	X	X						X X	CD	Filterd
2	1175 Haskell Lake Landing	/	/	9/24	1:00	15	7	X	X						X X X X	Pb	
3	1161 Haskell Lake Road	/	/	9/24	1:40	11	7	X	X						X X X X	VOC	
4	1161 Haskell Lake RD MSDS			9/24	1:40	11	12			X					X X X	EDB	
5	1167 Haskell Lake RD.			9/24	2:40	11	7	X	X						X X X X	MTBE	
6	Deep - 1			9/24	2:40	11	7	X	X						X X X X		
7	Haskell Lake Lodge			9/24	3:15	12	7	X	X						X X X X		
8	@ Tribal Office			9/24	3:40	11	7	X	X						X X X X		
9	Trip Blank at 9/23/15						2								X X X X		
10																	
11																	
12																	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS				

**\*Important Note:** By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sticker (Y/N)	Samples intact: (Y/N)
PRINT Name of SAMPLER:	<i>lucas spangler</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	<i>09/25/15</i>		

	Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: <b>F-MN-L-213-rev.13</b>	Issuing Authority: Pace Minnesota Quality Office

<b>Sample Condition Upon Receipt</b>	Client Name: <i>Bristol / CNE</i>	Project #: <b>WO# : 10324016</b>																																																																																
Courier:	<input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client	 10324016																																																																																
<input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Speedee <input type="checkbox"/> Other: _____																																																																																		
Tracking Number: _____																																																																																		
Custody Seal on Cooler/Box Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Optional: Proj. Due Date:    Proj. Name: _____																																																																																
Packing Material: <input checked="" type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																	
Thermometer Used: <input checked="" type="checkbox"/> B88A9130516413	Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun	<input type="checkbox"/> B88A912167504 <input type="checkbox"/> B88A0143310098																																																																																
Cooler Temp Read (°C): <i>10.2</i>	Cooler Temp Corrected (°C): <i>10.2</i>	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																																																																																
Temp should be above freezing to 6°C	Correction Factor: <i>0.0</i>	Date and Initials of Person Examining Contents: <i>SP 9/28/15</i>																																																																																
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.																																																																																		
<table border="1"> <thead> <tr> <th colspan="3"></th> <th>COMMENTS:</th> </tr> </thead> <tbody> <tr> <td>Chain of Custody Present?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">1.</td> </tr> <tr> <td>Chain of Custody Filled Out?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">2.</td> </tr> <tr> <td>Chain of Custody Relinquished?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">3.</td> </tr> <tr> <td>Sampler Name and/or Signature on COC?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">4.</td> </tr> <tr> <td>Samples Arrived within Hold Time?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">5.</td> </tr> <tr> <td>Short Hold Time Analysis (&lt;72 hr)?</td> <td><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">6.</td> </tr> <tr> <td>Rush Turn Around Time Requested?</td> <td><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">7.</td> </tr> <tr> <td>Sufficient Volume?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">8.</td> </tr> <tr> <td>Correct Containers Used? -Pace Containers Used?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">9.</td> </tr> <tr> <td>Containers Intact?</td> <td><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</td> <td colspan="2">10.</td> </tr> <tr> <td>Filtered Volume Received for Dissolved Tests?</td> <td><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input checked="" type="checkbox"/> N/A</td> <td colspan="2">11. 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Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		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**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: *[Signature]*

Date: *9/30/15*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

## Chain of Custody

40121974

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**Workorder:** 10324016    **Workorder Name:** BERS#31160024.EPA2012 TOWER ST    **Owner Received Date:** 9/28/2015    **Results Requested By:** 10/9/2015

Report To		Subcontract To					Requested Analysis																																																																																																																		
Timothy Sandager Pace Analytical Services, Inc. 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Fax (612)607-6444		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436																																																																																																																							
<table border="1"> <thead> <tr> <th colspan="12">Preserved Containers</th> </tr> <tr> <th>Item</th> <th>Sample ID</th> <th>Sample Type</th> <th>Collect Date/Time</th> <th>Lab ID</th> <th>Matrix</th> <th>HCL</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1175 HASHELL LAKE LANDING</td> <td>PS</td> <td>9/24/2015 01:00</td> <td>10324016002</td> <td>Water</td> <td><i>3</i></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>1161 HASHELL LAKE LAND</td> <td>RQS</td> <td>9/24/2015 01:40</td> <td>10324016003</td> <td>Water</td> <td><i>9</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>1167 HASHELL LAKE RD</td> <td>PS</td> <td>9/24/2015 04:40</td> <td>10324016005</td> <td>Water</td> <td><i>8</i></td> <td><i>3</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>DUP-1</td> <td>PS</td> <td>9/24/2015 04:40</td> <td>10324016006</td> <td>Water</td> <td><i>8</i></td> <td><i>6</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>HASHELL LAKE LODGE</td> <td>PS</td> <td>9/24/2015 03:15</td> <td>10324016007</td> <td>Water</td> <td><i>6</i></td> <td><i>4</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>TRIBAL OFFICE</td> <td>PS</td> <td>9/24/2015 03:40</td> <td>10324016008</td> <td>Water</td> <td><i>6</i></td> <td><i>4</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>TRIP BLANK</td> <td>PS</td> <td></td> <td>10324016009</td> <td>Water</td> <td><i>1</i></td> <td><i>1</i></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Preserved Containers												Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL						1	1175 HASHELL LAKE LANDING	PS	9/24/2015 01:00	10324016002	Water	<i>3</i>					X	2	1161 HASHELL LAKE LAND	RQS	9/24/2015 01:40	10324016003	Water	<i>9</i>						3	1167 HASHELL LAKE RD	PS	9/24/2015 04:40	10324016005	Water	<i>8</i>	<i>3</i>					4	DUP-1	PS	9/24/2015 04:40	10324016006	Water	<i>8</i>	<i>6</i>					5	HASHELL LAKE LODGE	PS	9/24/2015 03:15	10324016007	Water	<i>6</i>	<i>4</i>					6	TRIBAL OFFICE	PS	9/24/2015 03:40	10324016008	Water	<i>6</i>	<i>4</i>					7	TRIP BLANK	PS		10324016009	Water	<i>1</i>	<i>1</i>					LAB USE ONLY	
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3																																																																																																																									
Cooler Temperature on Receipt / <i>35°C</i>				Custody Seal (Y) or N			Received on Ice Y or N		Samples Intact Y or N																																																																																																																

**\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.**

*In order to maintain client confidentiality, location name or the sampling site, sampler's name and signature may be omitted from the report.*

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Wednesday, September 30, 2015 3:32:36 PM

EMT-ALL-C-002rev.00 24March2009

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EPA-R5-2017-010506 0004677

# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

*Pace Analytical*

Client Name: Pace, MN

Project #:

WO# : **40121974**

Courier:  FedEx  UPS  Client  Pace Other: Walter  
Tracking #: 878051



40121974

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR32

Type of Ice:  Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 13,5+2 Corr: 13,5+2 Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no

no

Person examining contents:

Date: 10-1-15

Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>TRWO</u> <span style="float: right;"><u>10-1-15 SKW</u></span>
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed <input type="checkbox"/> Lab Std #ID of preservative <input type="checkbox"/> Date/ Time:
Headspace in VOA Vials ( >6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>007 -1/vial</u> <span style="float: right;"><u>10-1-15</u></span>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**Client Notification/ Resolution:**

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution:

Project Manager Review: CW

Date: 10/1/15

October 15, 2015

Matt Faust  
Bristol Environmental Remediation Services,  
LLC  
111 W. 16th Avenue  
Anchorage, AK 99501

RE: Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager  
timothy.sandager@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: Pace
Alaska Certification #: UST-078	Montana Certification #: MT0092
Alaska Certification #MN00064	Nevada Certification #: MN_00064
Alabama Certification #40770	Nebraska Certification #: Pace
Arizona Certification #: AZ-0014	New Jersey Certification #: MN-002
Arkansas Certification #: 88-0680	New York Certification #: 11647
California Certification #: 01155CA	North Carolina Certification #: 530
Colorado Certification #Pace	North Carolina State Public Health #: 27700
Connecticut Certification #: PH-0256	North Dakota Certification #: R-036
EPA Region 8 Certification #: 8TMS-L	Ohio EPA #: 4150
Florida/NELAP Certification #: E87605	Ohio VAP Certification #: CL101
Guam Certification #:14-008r	Oklahoma Certification #: 9507
Georgia Certification #: 959	Oregon Certification #: MN200001
Georgia EPD #: Pace	Oregon Certification #: MN300001
Idaho Certification #: MN00064	Pennsylvania Certification #: 68-00563
Hawaii Certification #MN00064	Puerto Rico Certification
Illinois Certification #: 200011	Saipan (CNMI) #: MP0003
Indiana Certification#C-MN-01	South Carolina #: 74003001
Iowa Certification #: 368	Texas Certification #: T104704192
Kansas Certification #: E-10167	Tennessee Certification #: 02818
Kentucky Dept of Envi. Protection - DW #90062	Utah Certification #: MN000642013-4
Kentucky Dept of Envi. Protection - WV #:90062	Virginia DGS Certification #: 251
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #: 9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan DEPH Certification #: 9909	

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## SAMPLE SUMMARY

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10325028001	14299 STATE HIGHWAY 70	Water	10/03/15 09:17	10/06/15 12:20

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10325028001	14299 STATE HIGHWAY 70	EPA 6020A	TT3	2
		EPA 8270D by SIM	AS1	18
		EPA 8260B	LPM	70

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed		Qualifiers
10325028001	14299 STATE HIGHWAY 70	0.49	ug/L	0.10	10/09/15 19:13		
EPA 6020A	Lead						

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Method: **EPA 6020A**  
Description: 6020A MET ICPMS  
Client: Bristol Environmental Remediation Services, LLC  
Date: October 15, 2015

### General Information:

1 sample was analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** Bristol Environmental Remediation Services, LLC

**Date:** October 15, 2015

### General Information:

1 sample was analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/31089

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Method: **EPA 8260B**  
Description: 8260B MSV  
Client: Bristol Environmental Remediation Services, LLC  
Date: October 15, 2015

### General Information:

1 sample was analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70 Lab ID: 10325028001 Collected: 10/03/15 09:17 Received: 10/06/15 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/09/15 08:49	10/09/15 19:13	7440-43-9	
Lead	0.49	ug/L	0.10	1	10/09/15 08:49	10/09/15 19:13	7439-92-1	
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	83-32-9	
Acenaphthylene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	208-96-8	
Anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	207-08-9	
Chrysene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	53-70-3	
Fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	206-44-0	
Fluorene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	193-39-5	
Naphthalene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	91-20-3	
Phenanthrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	85-01-8	
Pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	79	%.	52-125	1	10/07/15 07:58	10/07/15 16:13	321-60-8	
p-Terphenyl-d14 (S)	93	%.	62-125	1	10/07/15 07:58	10/07/15 16:13	1718-51-0	
<b>8260B MSV</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		10/14/15 05:28	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/14/15 05:28	107-05-1	
Benzene	ND	ug/L	1.0	1		10/14/15 05:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/14/15 05:28	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/14/15 05:28	10/14/15 05:28	
Bromodichloromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/14/15 05:28	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/14/15 05:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/14/15 05:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/14/15 05:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/14/15 05:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/14/15 05:28	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/14/15 05:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/14/15 05:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/14/15 05:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/14/15 05:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/14/15 05:28	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70 Lab ID: 10325028001 Collected: 10/03/15 09:17 Received: 10/06/15 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>	Analytical Method: EPA 8260B							
Dibromomethane	ND	ug/L	4.0	1		10/14/15 05:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/14/15 05:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/14/15 05:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/14/15 05:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/14/15 05:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/14/15 05:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/14/15 05:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/14/15 05:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/14/15 05:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/14/15 05:28	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/14/15 05:28	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/14/15 05:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/14/15 05:28	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/14/15 05:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	103-65-1	
Styrene	ND	ug/L	1.0	1		10/14/15 05:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/14/15 05:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/14/15 05:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/14/15 05:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/14/15 05:28	109-99-9	
Toluene	ND	ug/L	1.0	1		10/14/15 05:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		10/14/15 05:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/14/15 05:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/14/15 05:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/14/15 05:28	1330-20-7	

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## ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70	Lab ID: 10325028001	Collected: 10/03/15 09:17	Received: 10/06/15 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>								Analytical Method: EPA 8260B
<i>Surrogates</i>								
1,2-Dichloroethane-d4 (S)	86	%.	75-125	1		10/14/15 05:28	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		10/14/15 05:28	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		10/14/15 05:28	460-00-4	

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

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QC Batch:	MPRP/58535	Analysis Method:	EPA 6020A
QC Batch Method:	EPA 3020	Analysis Description:	6020A Water UPD4
Associated Lab Samples:	10325028001		

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METHOD BLANK: 2101225                          Matrix: Water  
 Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	0.080	10/09/15 19:03	
Lead	ug/L	ND	0.10	10/09/15 19:03	

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LABORATORY CONTROL SAMPLE: 2101226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	80	88.9	111	80-120	
Lead	ug/L	80	87.4	109	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102291                          2102292

Parameter	Units	10325028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
Cadmium	ug/L	ND	80	80	95.0	85.9	119	107	75-125	10	20	
Lead	ug/L	0.49	80	80	94.7	88.4	118	110	75-125	7	20	

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

QC Batch:	MSV/33416	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV
Associated Lab Samples:	10325028001		

METHOD BLANK: 2106225                                  Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloropropene	ug/L	ND	1.0	10/14/15 01:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dichloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,3-Dichloropropane	ug/L	ND	1.0	10/14/15 01:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
2,2-Dichloropropane	ug/L	ND	4.0	10/14/15 01:12	
2-Butanone (MEK)	ug/L	ND	5.0	10/14/15 01:12	
2-Chlorotoluene	ug/L	ND	1.0	10/14/15 01:12	
2-Methylnaphthalene	ug/L	ND	5.0	10/14/15 01:12	
4-Chlorotoluene	ug/L	ND	1.0	10/14/15 01:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/14/15 01:12	
Acetone	ug/L	ND	20.0	10/14/15 01:12	
Allyl chloride	ug/L	ND	4.0	10/14/15 01:12	
Benzene	ug/L	ND	1.0	10/14/15 01:12	
Bromobenzene	ug/L	ND	1.0	10/14/15 01:12	
Bromochloromethane	ug/L	ND	1.0	10/14/15 01:12	
Bromodichloromethane	ug/L	ND	1.0	10/14/15 01:12	
Bromoform	ug/L	ND	4.0	10/14/15 01:12	
Bromomethane	ug/L	ND	4.0	10/14/15 01:12	
Carbon tetrachloride	ug/L	ND	1.0	10/14/15 01:12	
Chlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
Chloroethane	ug/L	ND	1.0	10/14/15 01:12	
Chloroform	ug/L	ND	1.0	10/14/15 01:12	
Chloromethane	ug/L	ND	4.0	10/14/15 01:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/14/15 01:12	

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

METHOD BLANK: 2106225 Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/14/15 01:12	
Dibromomethane	ug/L	ND	4.0	10/14/15 01:12	
Dichlorodifluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Dichlorofluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/14/15 01:12	
Ethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/14/15 01:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/14/15 01:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/14/15 01:12	
Methylene Chloride	ug/L	ND	4.0	10/14/15 01:12	
n-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
n-Propylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Naphthalene	ug/L	ND	4.0	10/14/15 01:12	
p-Isopropyltoluene	ug/L	ND	1.0	10/14/15 01:12	
sec-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Styrene	ug/L	ND	1.0	10/14/15 01:12	
tert-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Tetrachloroethene	ug/L	ND	1.0	10/14/15 01:12	
Tetrahydrofuran	ug/L	ND	10.0	10/14/15 01:12	
Toluene	ug/L	ND	1.0	10/14/15 01:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/14/15 01:12	
Trichloroethene	ug/L	ND	0.40	10/14/15 01:12	
Trichlorofluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Vinyl chloride	ug/L	ND	0.40	10/14/15 01:12	
Xylene (Total)	ug/L	ND	3.0	10/14/15 01:12	
1,2-Dichloroethane-d4 (S)	%.	91	75-125	10/14/15 01:12	
4-Bromofluorobenzene (S)	%.	104	75-125	10/14/15 01:12	
Toluene-d8 (S)	%.	100	75-125	10/14/15 01:12	

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.8	94	75-125	
1,1,1-Trichloroethane	ug/L	20	17.6	88	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	75-125	
1,1,2-Trichloroethane	ug/L	20	18.9	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.2	91	60-135	
1,1-Dichloroethane	ug/L	20	17.9	90	69-125	
1,1-Dichloroethene	ug/L	20	18.4	92	68-125	
1,1-Dichloropropene	ug/L	20	18.0	90	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.3	87	69-136	
1,2,3-Trichloropropane	ug/L	20	18.9	95	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.6	88	73-127	

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	42.6	85	65-145	
1,2-Dichlorobenzene	ug/L	20	18.6	93	75-125	
1,2-Dichloroethane	ug/L	20	18.0	90	73-125	
1,2-Dichloropropane	ug/L	20	19.1	95	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.9	95	75-125	
1,3-Dichlorobenzene	ug/L	20	18.7	94	74-125	
1,3-Dichloropropane	ug/L	20	19.0	95	75-125	
1,4-Dichlorobenzene	ug/L	20	18.4	92	75-125	
2,2-Dichloropropane	ug/L	20	16.1	81	59-139	
2-Butanone (MEK)	ug/L	100	82.9	83	63-130	
2-Chlorotoluene	ug/L	20	18.8	94	72-125	
2-Methylnaphthalene	ug/L	10	8.1	81	67-125	
4-Chlorotoluene	ug/L	20	19.0	95	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.0	92	71-126	
Acetone	ug/L	100	106	106	69-131	
Allyl chloride	ug/L	20	17.5	87	67-125	
Benzene	ug/L	20	17.5	88	71-125	
Bromobenzene	ug/L	20	18.7	94	75-125	
Bromochloromethane	ug/L	20	19.0	95	75-125	
Bromodichloromethane	ug/L	20	19.0	95	75-125	
Bromoform	ug/L	20	18.1	90	70-125	
Bromomethane	ug/L	20	14.8	74	30-150	
Carbon tetrachloride	ug/L	20	19.3	96	75-126	
Chlorobenzene	ug/L	20	19.3	97	75-125	
Chloroethane	ug/L	20	18.1	91	65-134	
Chloroform	ug/L	20	17.6	88	75-125	
Chloromethane	ug/L	20	15.9	80	39-150	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	72-125	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	75-125	
Dibromochloromethane	ug/L	20	19.1	96	75-125	
Dibromomethane	ug/L	20	19.6	98	75-125	
Dichlorodifluoromethane	ug/L	20	16.4	82	50-134	
Dichlorofluoromethane	ug/L	20	18.0	90	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.5	92	72-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.0	90	70-138	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	75-125	
Methyl-tert-butyl ether	ug/L	20	17.4	87	73-125	
Methylene Chloride	ug/L	20	18.0	90	73-125	
n-Butylbenzene	ug/L	20	18.3	92	72-133	
n-Propylbenzene	ug/L	20	19.0	95	72-126	
Naphthalene	ug/L	20	16.9	85	70-127	
p-Isopropyltoluene	ug/L	20	19.4	97	72-132	
sec-Butylbenzene	ug/L	20	19.2	96	73-132	
Styrene	ug/L	20	20.7	104	75-125	
tert-Butylbenzene	ug/L	20	18.1	90	73-128	

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.6	93	74-125	
Tetrahydrofuran	ug/L	200	200	100	62-133	
Toluene	ug/L	20	18.9	94	74-125	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	69-125	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	75-125	
Trichloroethene	ug/L	20	18.6	93	75-125	
Trichlorofluoromethane	ug/L	20	18.8	94	74-127	
Vinyl chloride	ug/L	20	16.5	83	66-132	
Xylene (Total)	ug/L	60	59.9	100	75-125	
1,2-Dichloroethane-d4 (S)	%.			92	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE SAMPLE: 2107624

Parameter	Units	10324518001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	70-138	
1,1,1-Trichloroethane	ug/L	ND	20	18.8	94	55-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.4	97	64-140	
1,1,2-Trichloroethane	ug/L	ND	20	19.9	99	67-137	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	21.7	108	51-150	
1,1-Dichloroethane	ug/L	ND	20	18.8	94	49-150	
1,1-Dichloroethene	ug/L	ND	20	20.4	102	40-150	
1,1-Dichloropropene	ug/L	ND	20	19.1	96	50-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.0	90	59-148	
1,2,3-Trichloropropane	ug/L	ND	20	19.9	99	65-141	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.1	91	61-140	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.6	103	58-141	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	47.8	96	53-150	
1,2-Dichlorobenzene	ug/L	ND	20	19.1	95	66-133	
1,2-Dichloroethane	ug/L	ND	20	17.8	89	54-138	
1,2-Dichloropropane	ug/L	ND	20	20.4	102	62-138	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.8	99	58-140	
1,3-Dichlorobenzene	ug/L	ND	20	19.3	97	66-132	
1,3-Dichloropropane	ug/L	ND	20	19.5	97	66-134	
1,4-Dichlorobenzene	ug/L	ND	20	19.0	95	65-129	
2,2-Dichloropropane	ug/L	ND	20	17.2	86	40-150	
2-Butanone (MEK)	ug/L	ND	100	89.3	89	51-147	
2-Chlorotoluene	ug/L	ND	20	19.8	99	58-147	
2-Methylnaphthalene	ug/L	ND	10	8.4	84	38-148	
4-Chlorotoluene	ug/L	ND	20	19.9	99	64-138	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	102	102	59-143	
Acetone	ug/L	ND	100	104	104	63-147	
Allyl chloride	ug/L	ND	20	18.4	92	45-150	
Benzene	ug/L	ND	20	18.9	94	53-139	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

MATRIX SPIKE SAMPLE:	2107624						
Parameter	Units	10324518001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	19.4	97	66-136	
Bromochloromethane	ug/L	ND	20	18.5	93	64-136	
Bromodichloromethane	ug/L	ND	20	20.4	102	66-138	
Bromoform	ug/L	ND	20	20.3	101	59-136	
Bromomethane	ug/L	ND	20	16.2	81	30-150	
Carbon tetrachloride	ug/L	ND	20	21.4	107	56-150	
Chlorobenzene	ug/L	ND	20	20.0	100	65-133	
Chloroethane	ug/L	ND	20	19.1	95	48-150	
Chloroform	ug/L	ND	20	18.3	92	57-145	
Chloromethane	ug/L	ND	20	17.5	87	30-150	
cis-1,2-Dichloroethene	ug/L	ND	20	18.4	92	49-150	
cis-1,3-Dichloropropene	ug/L	ND	20	18.9	94	64-130	
Dibromochloromethane	ug/L	ND	20	19.8	99	68-138	
Dibromomethane	ug/L	ND	20	20.0	100	67-134	
Dichlorodifluoromethane	ug/L	ND	20	21.1	106	45-150	
Dichlorofluoromethane	ug/L	ND	20	19.2	96	54-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	18.8	94	50-145	
Ethylbenzene	ug/L	ND	20	21.1	105	55-139	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.2	91	49-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.9	109	64-142	
Methyl-tert-butyl ether	ug/L	ND	20	18.4	92	62-129	
Methylene Chloride	ug/L	ND	20	18.3	92	57-132	
n-Butylbenzene	ug/L	ND	20	19.6	98	55-150	
n-Propylbenzene	ug/L	ND	20	20.6	103	59-142	
Naphthalene	ug/L	ND	20	18.0	90	51-150	
p-Isopropyltoluene	ug/L	ND	20	20.5	103	60-149	
sec-Butylbenzene	ug/L	ND	20	20.7	104	60-150	
Styrene	ug/L	ND	20	21.4	107	68-134	
tert-Butylbenzene	ug/L	ND	20	19.5	97	62-146	
Tetrachloroethene	ug/L	ND	20	21.0	105	50-150	
Tetrahydrofuran	ug/L	ND	200	219	107	59-145	
Toluene	ug/L	ND	20	19.7	98	52-148	
trans-1,2-Dichloroethene	ug/L	ND	20	19.9	100	45-150	
trans-1,3-Dichloropropene	ug/L	ND	20	19.5	97	68-132	
Trichloroethene	ug/L	ND	20	20.3	101	52-150	
Trichlorofluoromethane	ug/L	ND	20	21.4	107	55-150	
Vinyl chloride	ug/L	ND	20	18.2	91	43-150	
Xylene (Total)	ug/L	ND	60	63.6	106	54-144	
1,2-Dichloroethane-d4 (S)	%.				91	75-125	
4-Bromofluorobenzene (S)	%.				97	75-125	
Toluene-d8 (S)	%.				97	75-125	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

SAMPLE DUPLICATE: 2107625

Parameter	Units	10324546004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	1.2J		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

SAMPLE DUPLICATE: 2107625

Parameter	Units	10324546004 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	5.2J		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	91	91	0		
4-Bromofluorobenzene (S)	%.	99	101	2		
Toluene-d8 (S)	%.	100	98	2		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

QC Batch:	OEXT/31089	Analysis Method:	EPA 8270D by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270D PAH by SIM MSSV
Associated Lab Samples: 10325028001			

METHOD BLANK: 2100886 Matrix: Water  
 Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	10/07/15 13:39	
Acenaphthylene	ug/L	ND	0.040	10/07/15 13:39	
Anthracene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(a)anthracene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(a)pyrene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Chrysene	ug/L	ND	0.040	10/07/15 13:39	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/07/15 13:39	
Fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Fluorene	ug/L	ND	0.040	10/07/15 13:39	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/07/15 13:39	
Naphthalene	ug/L	ND	0.040	10/07/15 13:39	
Phenanthrene	ug/L	ND	0.040	10/07/15 13:39	
Pyrene	ug/L	ND	0.040	10/07/15 13:39	
2-Fluorobiphenyl (S)	%.	90	52-125	10/07/15 13:39	
p-Terphenyl-d14 (S)	%.	102	62-125	10/07/15 13:39	

LABORATORY CONTROL SAMPLE & LCSD: 2100887		2100888								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.74	0.76	74	76	44-125	3	20	
Acenaphthylene	ug/L	1	0.75	0.79	75	79	44-125	5	20	
Anthracene	ug/L	1	0.88	0.91	88	91	55-125	3	20	
Benzo(a)anthracene	ug/L	1	0.83	0.85	83	85	56-125	2	20	
Benzo(a)pyrene	ug/L	1	0.93	0.95	93	95	61-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.97	0.96	97	96	60-125	0	20	
Benzo(g,h,i)perylene	ug/L	1	0.92	0.94	92	94	53-125	2	20	
Benzo(k)fluoranthene	ug/L	1	0.85	0.87	85	87	59-125	3	20	
Chrysene	ug/L	1	0.85	0.87	85	87	61-125	2	20	
Dibenz(a,h)anthracene	ug/L	1	0.90	0.90	90	90	51-125	0	20	
Fluoranthene	ug/L	1	0.88	0.88	88	88	64-125	0	20	
Fluorene	ug/L	1	0.81	0.85	81	85	52-125	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.89	0.90	89	90	54-125	1	20	
Naphthalene	ug/L	1	0.72	0.75	72	75	35-125	4	20	
Phenanthrene	ug/L	1	0.77	0.78	77	78	55-125	2	20	
Pyrene	ug/L	1	0.90	0.90	90	90	59-125	1	20	
2-Fluorobiphenyl (S)	%.				77	80	52-125			
p-Terphenyl-d14 (S)	%.				92	94	62-125			

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Bers# 34160024:EPA 2015 TOWER  
Pace Project No.: 10325028

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: MSSV/13211

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bers# 34160024:EPA 2015 TOWER  
 Pace Project No.: 10325028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10325028001	14299 STATE HIGHWAY 70	EPA 3020	MPRP/58535	EPA 6020A	ICPM/26830
10325028001	14299 STATE HIGHWAY 70	EPA 3510C	OEXT/31089	EPA 8270D by SIM	MSSV/13211
10325028001	14299 STATE HIGHWAY 70	EPA 8260B		MSV/33416	

## REPORT OF LABORATORY ANALYSIS

Date: 10/15/2015 04:45 PM

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## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10325028

<b>Section A</b> Required Client Information: Company: Borstel Environmental Sv. Address: 111 W 16th Ave. 3rd floor Anchorage, AK 99501 Email To: Julie Sharp - Dahl Phone: 907-743-9394 Fax: Requested Due Date/TAT: 10 Business days		<b>Section B</b> Required Project Information: Report To: Julie Sharp - Dahl Copy To: Lesa Nelson Purchase Order No: Tower Standard LUST Site Project Name: Project Number: BERS # 34160024; EAA 2012		<b>Section C</b> Invoice Information: Attention: Julie Sharp - Dahl Company Name: Borstel Environmental Remedial Address: see client info Pace Quote Reference: 00019643 Pace Project Manager: Tim Sandager Pace Profile:	
				Page: 1 of 1 <b>1715043</b>	
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER					
<b>Site Location</b> STATE: WI					

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Y/N					
					DATE	TIME	DATE	TIME			Cd	Pb	VOC	MTBE		
1	4299 State Highway 70	WTG	10/3/15 9:17	Grab	11/6/13 X	XX		X	XX	X	X	X	X	X	CW	
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS			
K. Hansen			10/3/2015			10/6/15	12:20	Kristen Hanson			10/6/15	12:20	5.2 Y Y Y Y	5.2 Y Y Y Y		

SAMPLER NAME AND SIGNATURE		Temp in °C
PRINT Name of Sampler:	Signature of Sampler:	
ORIGINAL		Received on Ice (Y/N)
Kristen Hanson		Custody Sealed Cooler (Y/N)
10/3/2015		Samples intact (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

EPA-R5-2017-010506\_0004677

Document Name:  
Sample Condition Upon Receipt Form

Document Revised: 23Feb2015

Document No.:  
F-MN-L-213-rev.13Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality OfficeSample Condition  
Upon Receipt

Client Name:

Project #:

WO# : 10325028

Courier:  FedEx  UPS  USPS  ClientCommercial  Pace  SpeeDee  Other: \_\_\_\_\_

10325028

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  NoSeals Intact?  Yes  No

Optional: Proj. Due Date: Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_Temp Blank?  Yes  NoThermometer  B88A9130516413 Used:  B88A912167504  B88A0143310098 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begunCooler Temp Read (°C): 5.1 Cooler Temp Corrected (°C): 5.2 Biological Tissue Frozen?  Yes  No  N/A  
Temp should be above freezing to 6°C Correction Factor: +0.1 Date and Initials of Person Examining Contents: KH 10-6-15USDA Regulated Soil ( N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. Did samples originate from a foreign source (internationally, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?  Yes  No including Hawaii and Puerto Rico?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Chain of Custody Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):			
Initial when completed:	Lot # of added preservative:		
13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	Sample # <u>212</u>		
Date: <u>10/07/15</u>			

## CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: JHDate: 10/07/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414  
(612)607-1700

October 26, 2015

Matt Faust  
Bristol Environmental Remediation Services,  
LLC  
111 W. 16th Avenue  
Anchorage, AK 99501

RE: Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Timothy Sandager".

Timothy Sandager  
timothy.sandager@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: Pace
Alaska Certification #: UST-078	Montana Certification #: MT0092
Alaska Certification #MN00064	Nevada Certification #: MN_00064
Alabama Certification #40770	Nebraska Certification #: Pace
Arizona Certification #: AZ-0014	New Jersey Certification #: MN-002
Arkansas Certification #: 88-0680	New York Certification #: 11647
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Iowa Certification #: 368	Texas Certification #: T104704192
Kansas Certification #: E-10167	Tennessee Certification #: 02818
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Kentucky Dept of Envi. Protection - WV #:90062	Virginia DGS Certification #: 251
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #: 9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan DEPH Certification #: 9909	

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Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414  
(612)607-1700

## SAMPLE SUMMARY

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10326135001	1285 Hakell Lake Landing	Water	10/12/15 11:00	10/14/15 12:29

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: BERS#34160024; EPA TO 2012 Tow  
 Pace Project No.: 10326135

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10326135001	1285 Hakell Lake Landing	EPA 6010	IP	2	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	LPM	70	PASI-M

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## ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

Sample: 1285 Hakell Lake Landing      Lab ID: 10326135001      Collected: 10/12/15 11:00      Received: 10/14/15 12:29      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Cadmium	ND	ug/L	3.0	0.65	1	10/22/15 06:40	10/23/15 15:17	7440-43-9	
Lead	ND	ug/L	10.0	2.0	1	10/22/15 06:40	10/23/15 15:17	7439-92-1	
<b>8270D MSSV PAH by SIM</b>	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.045	0.0036	1	10/19/15 08:37	10/19/15 15:01	83-32-9	
Acenaphthylene	ND	ug/L	0.045	0.0044	1	10/19/15 08:37	10/19/15 15:01	208-96-8	
Anthracene	ND	ug/L	0.045	0.0050	1	10/19/15 08:37	10/19/15 15:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	0.0033	1	10/19/15 08:37	10/19/15 15:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	0.0034	1	10/19/15 08:37	10/19/15 15:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	0.0086	1	10/19/15 08:37	10/19/15 15:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	0.0061	1	10/19/15 08:37	10/19/15 15:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	0.0042	1	10/19/15 08:37	10/19/15 15:01	207-08-9	
Chrysene	ND	ug/L	0.045	0.0059	1	10/19/15 08:37	10/19/15 15:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	0.011	1	10/19/15 08:37	10/19/15 15:01	53-70-3	
Fluoranthene	ND	ug/L	0.045	0.0064	1	10/19/15 08:37	10/19/15 15:01	206-44-0	
Fluorene	ND	ug/L	0.045	0.0063	1	10/19/15 08:37	10/19/15 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	0.0062	1	10/19/15 08:37	10/19/15 15:01	193-39-5	
Naphthalene	ND	ug/L	0.045	0.010	1	10/19/15 08:37	10/19/15 15:01	91-20-3	
Phenanthrene	ND	ug/L	0.045	0.014	1	10/19/15 08:37	10/19/15 15:01	85-01-8	
Pyrene	ND	ug/L	0.045	0.0072	1	10/19/15 08:37	10/19/15 15:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%.	52-125		1	10/19/15 08:37	10/19/15 15:01	321-60-8	
p-Terphenyl-d14 (S)	82	%.	62-125		1	10/19/15 08:37	10/19/15 15:01	1718-51-0	
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	20.0	7.1	1		10/20/15 02:54	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.58	1		10/20/15 02:54	107-05-1	
Benzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.25	1		10/20/15 02:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		10/20/15 02:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/20/15 02:54	75-27-4	
Bromoform	ND	ug/L	4.0	0.41	1		10/20/15 02:54	75-25-2	
Bromomethane	ND	ug/L	4.0	0.36	1		10/20/15 02:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		10/20/15 02:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.083	1		10/20/15 02:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.18	1		10/20/15 02:54	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.35	1		10/20/15 02:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	108-90-7	
Chloroethane	ND	ug/L	4.0	0.34	1		10/20/15 02:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		10/20/15 02:54	67-66-3	
Chloromethane	ND	ug/L	4.0	0.64	1		10/20/15 02:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.24	1		10/20/15 02:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.70	1		10/20/15 02:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		10/20/15 02:54	124-48-1	

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## ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

Sample: 1285 Hakell Lake Landing      Lab ID: 10326135001      Collected: 10/12/15 11:00      Received: 10/14/15 12:29      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>	Analytical Method: EPA 8260B								
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		10/20/15 02:54	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.31	1		10/20/15 02:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.49	1		10/20/15 02:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		10/20/15 02:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		10/20/15 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	156-60-5	
Dichlorodifluoromethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.42	1		10/20/15 02:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.24	1		10/20/15 02:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.36	1		10/20/15 02:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.21	1		10/20/15 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.22	1		10/20/15 02:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.38	1		10/20/15 02:54	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.48	1		10/20/15 02:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.17	1		10/20/15 02:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.56	1		10/20/15 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.4	1		10/20/15 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.20	1		10/20/15 02:54	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.14	1		10/20/15 02:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	103-65-1	
Styrene	ND	ug/L	1.0	0.11	1		10/20/15 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		10/20/15 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.19	1		10/20/15 02:54	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	4.0	1		10/20/15 02:54	109-99-9	
Toluene	ND	ug/L	1.0	0.13	1		10/20/15 02:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		10/20/15 02:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		10/20/15 02:54	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.14	1		10/20/15 02:54	79-01-6	
Trichlorodifluoromethane	ND	ug/L	1.0	0.18	1		10/20/15 02:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.50	1		10/20/15 02:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.42	1		10/20/15 02:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.20	1		10/20/15 02:54	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.15	1		10/20/15 02:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.60	1		10/20/15 02:54	1330-20-7	

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## ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

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Sample: 1285 Hakell Lake Landing      Lab ID: 10326135001      Collected: 10/12/15 11:00      Received: 10/14/15 12:29      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>		Analytical Method: EPA 8260B							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		10/20/15 02:54	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		10/20/15 02:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/20/15 02:54	460-00-4	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

QC Batch:	MPRP/58907	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples: 10326135001			

METHOD BLANK: 2112756 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	3.0	10/23/15 15:10	
Lead	ug/L	ND	10.0	10/23/15 15:10	

LABORATORY CONTROL SAMPLE: 2112757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	1000	1060	106	80-120	
Lead	ug/L	1000	936	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2112758 2112759

Parameter	Units	10326135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Cadmium	ug/L	ND	1000	1000	1060	1030	106	103	75-125	3	20	
Lead	ug/L	ND	1000	1000	941	922	94	92	75-125	2	20	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

QC Batch:	MSV/33481	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV 465 W
Associated Lab Samples:	10326135001		

METHOD BLANK: 2111822 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloropropene	ug/L	ND	1.0	10/19/15 23:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,3-Dichloropropane	ug/L	ND	1.0	10/19/15 23:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
2,2-Dichloropropane	ug/L	ND	4.0	10/19/15 23:46	
2-Butanone (MEK)	ug/L	ND	5.0	10/19/15 23:46	
2-Chlorotoluene	ug/L	ND	1.0	10/19/15 23:46	
4-Chlorotoluene	ug/L	ND	1.0	10/19/15 23:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/19/15 23:46	
Acetone	ug/L	ND	20.0	10/19/15 23:46	
Allyl chloride	ug/L	ND	4.0	10/19/15 23:46	
Benzene	ug/L	ND	1.0	10/19/15 23:46	
Bromobenzene	ug/L	ND	1.0	10/19/15 23:46	
Bromochloromethane	ug/L	ND	1.0	10/19/15 23:46	
Bromodichloromethane	ug/L	ND	1.0	10/19/15 23:46	
Bromoform	ug/L	ND	4.0	10/19/15 23:46	
Bromomethane	ug/L	ND	4.0	10/19/15 23:46	
Carbon tetrachloride	ug/L	ND	1.0	10/19/15 23:46	
Chlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
Chloroethane	ug/L	ND	4.0	10/19/15 23:46	
Chloroform	ug/L	ND	1.0	10/19/15 23:46	
Chloromethane	ug/L	ND	4.0	10/19/15 23:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/19/15 23:46	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

METHOD BLANK: 2111822 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/19/15 23:46	
Dibromomethane	ug/L	ND	4.0	10/19/15 23:46	
Dichlorodifluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Dichlorofluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/19/15 23:46	
Ethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/19/15 23:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/19/15 23:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/19/15 23:46	
Methylene Chloride	ug/L	ND	4.0	10/19/15 23:46	
n-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
n-Propylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Naphthalene	ug/L	ND	4.0	10/19/15 23:46	
p-Isopropyltoluene	ug/L	ND	1.0	10/19/15 23:46	
sec-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Styrene	ug/L	ND	1.0	10/19/15 23:46	
tert-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Tetrachloroethene	ug/L	ND	1.0	10/19/15 23:46	
Tetrahydrofuran	ug/L	ND	10.0	10/19/15 23:46	
Toluene	ug/L	ND	1.0	10/19/15 23:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/19/15 23:46	
Trichloroethene	ug/L	ND	0.40	10/19/15 23:46	
Trichlorofluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Vinyl chloride	ug/L	ND	0.40	10/19/15 23:46	
Xylene (Total)	ug/L	ND	3.0	10/19/15 23:46	
1,2-Dichloroethane-d4 (S)	%.	97	75-125	10/19/15 23:46	
4-Bromofluorobenzene (S)	%.	100	75-125	10/19/15 23:46	
Toluene-d8 (S)	%.	98	75-125	10/19/15 23:46	

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	104	75-125	
1,1,1-Trichloroethane	ug/L	20	20.5	102	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.2	96	60-135	
1,1-Dichloroethane	ug/L	20	20.7	104	69-125	
1,1-Dichloroethene	ug/L	20	19.6	98	68-125	
1,1-Dichloropropene	ug/L	20	20.0	100	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.4	87	69-136	
1,2,3-Trichloropropane	ug/L	20	20.8	104	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.5	93	73-127	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	65-145	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	75-125	
1,2-Dichlorobenzene	ug/L	20	19.9	99	75-125	
1,2-Dichloroethane	ug/L	20	21.3	106	73-125	
1,2-Dichloropropane	ug/L	20	20.6	103	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	19.5	97	74-125	
1,3-Dichloropropane	ug/L	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	20	20.6	103	75-125	
2,2-Dichloropropane	ug/L	20	20.6	103	59-139	
2-Butanone (MEK)	ug/L	100	98.6	99	63-130	
2-Chlorotoluene	ug/L	20	19.8	99	72-125	
4-Chlorotoluene	ug/L	20	19.4	97	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.7	96	71-126	
Acetone	ug/L	100	103	103	69-131	
Allyl chloride	ug/L	20	19.3	97	67-125	
Benzene	ug/L	20	20.2	101	71-125	
Bromobenzene	ug/L	20	20.2	101	75-125	
Bromochloromethane	ug/L	20	21.0	105	75-125	
Bromodichloromethane	ug/L	20	20.8	104	75-125	
Bromoform	ug/L	20	19.6	98	70-125	
Bromomethane	ug/L	20	17.1	86	30-150	
Carbon tetrachloride	ug/L	20	20.0	100	75-126	
Chlorobenzene	ug/L	20	20.6	103	75-125	
Chloroethane	ug/L	20	20.4	102	65-134	
Chloroform	ug/L	20	21.1	106	75-125	
Chloromethane	ug/L	20	15.3	77	39-150	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	72-125	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	75-125	
Dibromochloromethane	ug/L	20	20.1	101	75-125	
Dibromomethane	ug/L	20	20.6	103	75-125	
Dichlorodifluoromethane	ug/L	20	15.8	79	50-134	
Dichlorofluoromethane	ug/L	20	20.9	104	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	21.0	105	72-125	
Ethylbenzene	ug/L	20	19.7	99	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.6	98	70-138	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	75-125	
Methyl-tert-butyl ether	ug/L	20	20.4	102	73-125	
Methylene Chloride	ug/L	20	21.4	107	73-125	
n-Butylbenzene	ug/L	20	18.3	91	72-133	
n-Propylbenzene	ug/L	20	19.1	96	72-126	
Naphthalene	ug/L	20	17.0	85	70-127	
p-Isopropyltoluene	ug/L	20	19.5	97	72-132	
sec-Butylbenzene	ug/L	20	19.2	96	73-132	
Styrene	ug/L	20	20.6	103	75-125	
tert-Butylbenzene	ug/L	20	19.6	98	73-128	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.2	101	74-125	
Tetrahydrofuran	ug/L	200	212	106	62-133	
Toluene	ug/L	20	19.7	98	74-125	
trans-1,2-Dichloroethene	ug/L	20	21.2	106	69-125	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	75-125	
Trichloroethene	ug/L	20	21.1	106	75-125	
Trichlorofluoromethane	ug/L	20	20.2	101	74-127	
Vinyl chloride	ug/L	20	19.1	96	66-132	
Xylene (Total)	ug/L	60	59.7	99	75-125	
1,2-Dichloroethane-d4 (S)	%.			100	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			97	75-125	

MATRIX SPIKE SAMPLE: 2112835

Parameter	Units	10325965004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-138	
1,1,1-Trichloroethane	ug/L	ND	20	19.4	97	55-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.6	88	64-140	
1,1,2-Trichloroethane	ug/L	ND	20	17.9	89	67-137	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20.7	103	51-150	
1,1-Dichloroethane	ug/L	ND	20	18.4	92	49-150	
1,1-Dichloroethene	ug/L	ND	20	18.3	91	40-150	
1,1-Dichloropropene	ug/L	ND	20	17.4	87	50-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	14.9	75	59-148	
1,2,3-Trichloropropane	ug/L	ND	20	18.7	93	65-141	
1,2,4-Trichlorobenzene	ug/L	ND	20	15.9	80	61-140	
1,2,4-Trimethylbenzene	ug/L	ND	20	16.9	85	58-141	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	43.4	87	53-150	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.1	90	65-137	
1,2-Dichlorobenzene	ug/L	ND	20	17.1	86	66-133	
1,2-Dichloroethane	ug/L	ND	20	17.3	86	54-138	
1,2-Dichloropropane	ug/L	ND	20	18.0	90	62-138	
1,3,5-Trimethylbenzene	ug/L	ND	20	17.0	85	58-140	
1,3-Dichlorobenzene	ug/L	ND	20	16.9	84	66-132	
1,3-Dichloropropane	ug/L	ND	20	18.0	90	66-134	
1,4-Dichlorobenzene	ug/L	ND	20	17.4	87	65-129	
2,2-Dichloropropane	ug/L	ND	20	16.8	84	40-150	
2-Butanone (MEK)	ug/L	ND	100	83.2	83	51-147	
2-Chlorotoluene	ug/L	ND	20	17.1	86	58-147	
4-Chlorotoluene	ug/L	ND	20	16.8	84	64-138	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	85.5	86	59-143	
Acetone	ug/L	ND	100	96.2	96	63-147	
Allyl chloride	ug/L	ND	20	16.8	84	45-150	
Benzene	ug/L	ND	20	17.4	87	53-139	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

MATRIX SPIKE SAMPLE:	2112835						
Parameter	Units	10325965004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	17.8	89	66-136	
Bromochloromethane	ug/L	ND	20	17.2	86	64-136	
Bromodichloromethane	ug/L	ND	20	17.5	88	66-138	
Bromoform	ug/L	ND	20	17.0	85	59-136	
Bromomethane	ug/L	ND	20	14.2	71	30-150	
Carbon tetrachloride	ug/L	ND	20	18.6	93	56-150	
Chlorobenzene	ug/L	ND	20	18.0	90	65-133	
Chloroethane	ug/L	ND	20	18.9	94	48-150	
Chloroform	ug/L	ND	20	18.7	94	57-145	
Chloromethane	ug/L	ND	20	13.9	70	30-150	
cis-1,2-Dichloroethene	ug/L	ND	20	18.3	91	49-150	
cis-1,3-Dichloropropene	ug/L	ND	20	17.3	87	64-130	
Dibromochloromethane	ug/L	ND	20	17.5	87	68-138	
Dibromomethane	ug/L	ND	20	18.3	92	67-134	
Dichlorodifluoromethane	ug/L	ND	20	16.9	85	45-150	
Dichlorofluoromethane	ug/L	ND	20	18.9	95	54-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	17.3	87	50-145	
Ethylbenzene	ug/L	ND	20	17.4	87	55-139	
Hexachloro-1,3-butadiene	ug/L	ND	20	17.1	86	49-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	17.6	88	64-142	
Methyl-tert-butyl ether	ug/L	ND	20	17.7	88	62-129	
Methylene Chloride	ug/L	ND	20	17.8	89	57-132	
n-Butylbenzene	ug/L	ND	20	16.0	80	55-150	
n-Propylbenzene	ug/L	ND	20	16.8	84	59-142	
Naphthalene	ug/L	ND	20	14.5	73	51-150	
p-Isopropyltoluene	ug/L	ND	20	16.8	84	60-149	
sec-Butylbenzene	ug/L	ND	20	16.8	84	60-150	
Styrene	ug/L	ND	20	18.3	91	68-134	
tert-Butylbenzene	ug/L	ND	20	17.2	86	62-146	
Tetrachloroethene	ug/L	ND	20	18.4	92	50-150	
Tetrahydrofuran	ug/L	ND	200	184	92	59-145	
Toluene	ug/L	ND	20	17.9	89	52-148	
trans-1,2-Dichloroethene	ug/L	ND	20	18.4	92	45-150	
trans-1,3-Dichloropropene	ug/L	ND	20	17.4	87	68-132	
Trichloroethene	ug/L	ND	20	19.3	96	52-150	
Trichlorofluoromethane	ug/L	ND	20	19.8	99	55-150	
Vinyl chloride	ug/L	ND	20	17.3	87	43-150	
Xylene (Total)	ug/L	ND	60	52.9	88	54-144	
1,2-Dichloroethane-d4 (S)	%.				96	75-125	
4-Bromofluorobenzene (S)	%.				98	75-125	
Toluene-d8 (S)	%.				98	75-125	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

SAMPLE DUPLICATE: 2112836

Parameter	Units	10325965005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	0.67J	.75J		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

SAMPLE DUPLICATE: 2112836

Parameter	Units	10325965005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	96	94	2		
4-Bromofluorobenzene (S)	%.	98	100	2		
Toluene-d8 (S)	%.	98	97	1		

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

QC Batch:	OEXT/31274	Analysis Method:	EPA 8270D by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270D PAH by SIM MSSV
Associated Lab Samples: 10326135001			

METHOD BLANK: 2111372 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	10/19/15 11:47	
Acenaphthylene	ug/L	ND	0.040	10/19/15 11:47	
Anthracene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(a)anthracene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(a)pyrene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Chrysene	ug/L	ND	0.040	10/19/15 11:47	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/19/15 11:47	
Fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Fluorene	ug/L	ND	0.040	10/19/15 11:47	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/19/15 11:47	
Naphthalene	ug/L	ND	0.040	10/19/15 11:47	
Phenanthrene	ug/L	ND	0.040	10/19/15 11:47	
Pyrene	ug/L	ND	0.040	10/19/15 11:47	
2-Fluorobiphenyl (S)	%.	85	52-125	10/19/15 11:47	
p-Terphenyl-d14 (S)	%.	83	62-125	10/19/15 11:47	

LABORATORY CONTROL SAMPLE: 2111373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.86	86	44-125	
Acenaphthylene	ug/L	1	0.84	84	44-125	
Anthracene	ug/L	1	1.0	101	55-125	
Benzo(a)anthracene	ug/L	1	0.79	79	56-125	
Benzo(a)pyrene	ug/L	1	0.85	85	61-125	
Benzo(b)fluoranthene	ug/L	1	0.82	82	60-125	
Benzo(g,h,i)perylene	ug/L	1	0.72	72	53-125	
Benzo(k)fluoranthene	ug/L	1	0.92	92	59-125	
Chrysene	ug/L	1	0.85	85	61-125	
Dibenz(a,h)anthracene	ug/L	1	0.71	71	51-125	
Fluoranthene	ug/L	1	0.85	85	64-125	
Fluorene	ug/L	1	0.91	91	52-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.71	71	54-125	
Naphthalene	ug/L	1	0.91	91	35-125	
Phenanthrene	ug/L	1	0.92	92	55-125	
Pyrene	ug/L	1	0.91	91	59-125	
2-Fluorobiphenyl (S)	%.			83	52-125	
p-Terphenyl-d14 (S)	%.			86	62-125	

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## QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2111376		2111377											
Parameter	Units	MS		MSD		MS	MSD	% Rec	MSD	% Rec	% Rec	Limits	RPD	RPD	Max
		10326174004	Result	Spike Conc.	Spike Conc.										
Acenaphthene	ug/L	ND	1	1	0.78	0.78	76	76	44-125	0	30				
Acenaphthylene	ug/L	ND	1	1	0.75	0.80	74	79	52-125	7	30				
Anthracene	ug/L	ND	1	1	0.96	0.98	94	96	56-125	2	30				
Benzo(a)anthracene	ug/L	ND	1	1	0.77	0.80	75	79	51-125	5	30				
Benzo(a)pyrene	ug/L	ND	1	1	0.75	0.80	74	78	64-125	6	30				
Benzo(b)fluoranthene	ug/L	ND	1	1	0.76	0.81	75	79	61-125	6	30				
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.62	0.67	61	66	53-125	8	30				
Benzo(k)fluoranthene	ug/L	ND	1	1	0.79	0.82	78	80	59-125	3	30				
Chrysene	ug/L	ND	1	1	0.83	0.85	82	84	56-125	2	30				
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.61	0.65	60	64	42-125	7	30				
Fluoranthene	ug/L	ND	1	1	0.81	0.84	79	83	54-125	4	30				
Fluorene	ug/L	ND	1	1	0.83	0.84	81	82	45-125	1	30				
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.59	0.64	58	62	44-125	8	30				
Naphthalene	ug/L	ND	1	1	0.83	0.83	81	82	51-125	0	30				
Phenanthrene	ug/L	ND	1	1	0.88	0.89	86	87	61-125	1	30				
Pyrene	ug/L	ND	1	1	0.88	0.90	86	88	63-125	3	30				
2-Fluorobiphenyl (S)	%						73	72	52-125						
p-Terphenyl-d14 (S)	%						81	84	62-125						

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: BERS#34160024; EPA TO 2012 Tow  
Pace Project No.: 10326135

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#34160024; EPA TO 2012 Tow  
 Pace Project No.: 10326135

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10326135001	1285 Hakell Lake Landing	EPA 3010	MPRP/58907	EPA 6010	ICP/25724
10326135001	1285 Hakell Lake Landing	EPA 3510C	OEXT/31274	EPA 8270D by SIM	MSSV/13277
10326135001	1285 Hakell Lake Landing	EPA 8260B		MSV/33481	

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## **CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

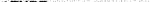
60324135

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>1</u> of <u>1</u>	
Company: <u>Bristol Environmental Sv.</u>	Report To: <u>Julie Sharp - Dahl</u>	Attention: <u>Julie Sharp-Dahl</u>	1715042				
Address: <u>111 W 16th Ave. 3rd floor</u>	Copy To: <u>Lesia Nelson</u>	Company Name: <u>BRISTOL Environmental Sv.</u>					
City/State/Zip: <u>Anchorage, AK 99501</u>		Address: <u>See Client Info</u>					
Email To: <u>Julie Sharp - Dahl</u>	Purchase Order No.:	Pace Quote Reference: <u>0001964</u>					
Phone: <u>(907) 743-9334</u>	Project Name: <u>Tower Standard LUST site</u>	Pace Project Manager: <u>Tim Sandager</u>					
Fax: <u></u>	Project Number: <u>BERS# 34160024; EPA ID 2012</u>	Pace Profile #: <u></u>					
Requested Due Date/TAT: <u>10 business days</u>		REGULATORY AGENCY					
		<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER			
		<input checked="" type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER			
		Site Location		STATE:	<u>WI</u>		

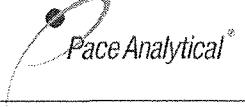
**\*Important Note:** By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Kristen Hanson
SIGNATURE of SAMPLER:	
DATE Signed (MM/DD/YY): 10/13/2015	

Page 20 of 21

	Document Name: <b>Sample Condition Upon Receipt Form</b>	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: <b>F-MN-L-213-rev.13</b>	Issuing Authority: Pace Minnesota Quality Office

**Sample Condition  
Upon Receipt**

Client Name:

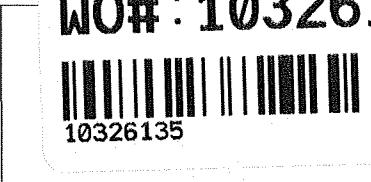
*Bristol Env. Sv.*

Project #:

**WO# : 10326135**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeeDee  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_



Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Optional: Proj. Due Date: Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer  B88A9130516413 Used:  B88A912167504  B88A0143310098 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.5 Cooler Temp Corrected (°C): 3.6 Biological Tissue Frozen?  Yes  No  N/A Correction Factor: +0.1 Date and Initials of Person Examining Contents: Kb 10-14-15

Temp should be above freezing to 6°C  
USDA Regulated Soil ( N/A, water sample)  
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. Did samples originate from a foreign source (internationally, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?  Yes  No including Hawaii and Puerto Rico?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12. <i>WT</i>
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample # <u>111</u>
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):				

**CLIENT NOTIFICATION/RESOLUTION**Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: *[Signature]*Date: 10/15/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).